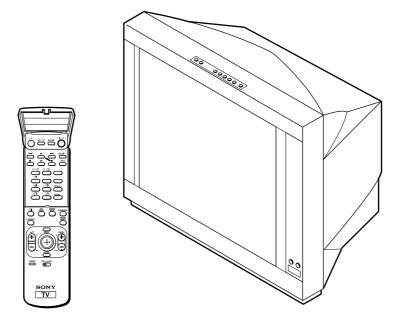


SERVICE MANUAL

AG3 chassis

MODEL COMMANDER DEST. CHASSIS NO. MODEL COMMANDER DEST. CHASSIS NO.

KV-ES38M31 RM-916 Australia SCC-P72A-A KV-ES38M61 RM-916 GE SCC-P35B-A KV-ES38M90 RM-916 Hong Kong SCC-P27C-A KV-ES38M91 RM-916 ME SCC-P32F-A





SPECIFICATIONS

		Note
Power requirements	220-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
Stereo/Bilingual system	NICAM Stereo/Bilingual B/G, I, DK; A2 Stereo/Bilingual B/G	
Teletext language	English, Arabic, French	KV-ES38M90 only
Channel coverage		
B/G	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41	
	VHF: 0 to 12, 5A, 9A / UHF: 28 to 69 / CATV: S01 to S03, S1 to S41	Australia only
I	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41	
D/K	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 CATV: S01 to S03, S1 to S41, Z1 to Z39	
М	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+4, W+6 to W+84	
⊺ (Antenna)	75-ohm external terminal	
Audio output (Speaker)	15W + 15W	
Number of terminal		
	Input: 4* Output: 1	Phono jacks; 1 V _{P-P} , 75 ohms
♪ (Audio)	Input: 4* Output: 1	Phono jacks; 500 mVrms
⊕ (S Video)	Input: 2	Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms
(Component Video)	Input: 1	Phono jacks Y: 1 Vp-p, 75 ohms, sync negative CB: 0.7 Vp-p, 75 ohms CR: 0.7 Vp-p, 75 ohms Audio: 500 mVrms
DIGITAL IN	Input: 1	Phone jack; 0.5 Vp-p, 75 ohms
○ (Headphones)	Output: 1	Stereo minijack
Picture tube	38 inch	
Tube size (cm)	97	Measured diagonally
Screen size (cm)	91	Measured diagonally
Dimension (w/h/d, mm)	962 x 728 x 615	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

Section	$\underline{\underline{\underline{ritle}}}$ $\underline{\underline{\underline{Pag}}}$	<u>e</u>	Sectio	<u>Title</u>	<u>Page</u>
SELF	DIAGNOSTIC FUNCTION4	4 6.	CIR	CUIT ADJUSTMENTS	
			6-1.	Adjustment with Commander	46
1. GE	NERAL	7	6-2.	Asjustment Method	46
			6-3.	Picture Quality Adjustment	59
2. DIS	SASSEMBLY		6-4.	Deflection Adjustment	60
2-1.	Rear Cover Removal	3	6-5.	A Board Ajustment After IC003 (Memor	y)
2-2.	Speaker Box Removal	3		Replacement	62
2-3.	H2 Board Removal	3	6-6.	Picture Distortion Adjustment	63
2-4.	Chassis Assy Removal	1			
2-5.	Service Position	1 7 .	. DIA	GRAMS	
2-6.	DH Board Removal34	1	7-1.	Block Diagram	65
2-7.	J Board Removal	1	7-2.	Schematic Diagram	70
2-8.	B3, D1 and E Boards Removal	5		(1) Schematic Diagram of A Board	77
2-9.	A and D Boards Removal	5		(2) Schematic Diagram of D Board	78
2-10	O. H1 Boards Removal	5		(3) Schematic Diagram of D1 Board	79
2-11	1. F2 Board Removal	5		(4) Schematic Diagram of C Board	80
2-12	2. Demagnetization Coil Removal	5		(5) Schematic Diagram of E Board	81
2-13	3. Top Switch Removal			(6) Schematic Diagram of J Board	82
	(H3 Board Removal)36	5		(7) Schematic Diagrams of VM and F1 B	oards 83
2-14	4. G2 Lead Removal	5		(8) Schematic Diagrams of H1, H3, F2 ar	nd
2-15	5. Picture Tube Removal	7		SP Boards	84
2-16	6. Frame Sub-Assy Disassembly	7		(9) Schematic Diagrams of DH and H2 B	Boards 85
	•			(10) Schematic Diagram of A1 Board	86
3. SE	RVICE JIG			(11) Schematic Diagram of BC4 Board	97
3-1.	Jigs Required for Servicing)		(12) Schematic Diagram of V Board	98
				(13) Schematic Diagram of B3 Board	99
4. CIF	RCUIT BOARDS LOCATION 40)	7-3.	Voltage Measurement	114
			7-4.	Waveforms	127
5. SE	T-UP ADJUSTMENTS		7-5.	Printed Wiring Board and Parts Location	
5-1.	Beam Landing41	l	7-6.	Semiconductors	
5-2.					
5-3.	-		EXI	PLODED VIEWS	
5-4.	-		8-1.	Speaker Bracket	150
5-5.			8-2.	-	
	•		8-3.	Picture Tube	
		a	FIF	CTRICAL PARTS LIST	153
5-5.	G2 (Screen) and White Balance Adjustment 45		8-3.		

SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.

The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/ TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

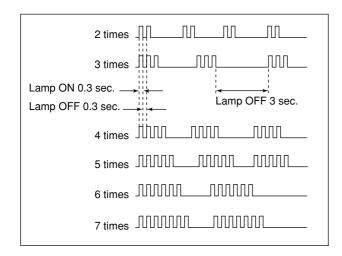
When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occured if the screen displays a "0".

Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/ Diagnostic result	Probable Cause Location	Detected Symptoms
Power does not turn on	Does not light	_	 Power cord is not plugged in. Fuse is burned out F1601 (F1 Board) 	 Power does not come on. No power is supplied to the TV. AC power supply is faulty.
• +B overcurrent (OCP)	2 times	002:000 or 002:001~255	H.OUT Q6807 is shorted. H.LIM Q6810 is shorted.	Power does not come on.Load on power line is shorted.
• +B overvoltage (OVP)	3 times	003:000 or 003:001~255	PH 6602 faulty. 10.5V is not supplied. (D board)	Power does not come on.
Vertical deflection failure	4 times	004:000 or 004:001~255	V.OUT IC6800 faulty D6816 faulty D6817 faulty D6824 faulty R6852 open R6851 open	 Vertical deflection pulse is stopped. Vertical size is too small. Vertical deflection stopped.
White balance failure (no PICTURE)	5 times	005:000 or 005:001~255	G2 is improperly adjusted. (Note 2) CRT problem. Video OUT IC9001, 9002, 9003 are faulty. (C board) IC8306 (J board) and IC4301 (E board) are faulty. No connection E board to C board.	No raster is generated. CRT cathode current detection reference pulse output is small.
Horizontal deflection failure	6 times	006:000 or 006:001~225	C6831 is open circuit. CN6101 (D1 board) is disconnected.	H pulse output is too high.
Audio Protection	7 times	007:000 or 007:001~225	Power supply fails. IC1203, IC1204 faulty	There is picture but speaker does not release sound.
Micro reset	_	101:00 or 101:001~225	Discharge CRT (C Board) Static discharge External noise	 Power is shut down shortly, after this return back to normal. Detect Micro latch up.

Note 1: Refer to screen (G2) Adjustment in section 4-5 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



<u>Diagnostic Item</u>	Flash Count*
+B overcurrent	2 times
+B overvoltage	3 times
V deflection stop	4 times
White balance failure	5 times
High voltage protector	6 times
Audio Protection	7 times

* One flash count is not used for self-diagnostic.



3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as "power sometimes shuts off" or "screen sometimes goes out" that cannot be confirmed, it is possible to bring up past occurances of failure for confirmation on the screen:

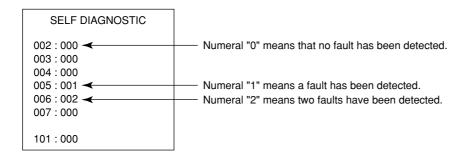
[To Bring Up Screen Test]

In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:



Note that this differs from entering the service mode (mode volume ±).

Self-Diagnosis screen display



5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to "0".

Unless the result display is cleared to "0", the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]

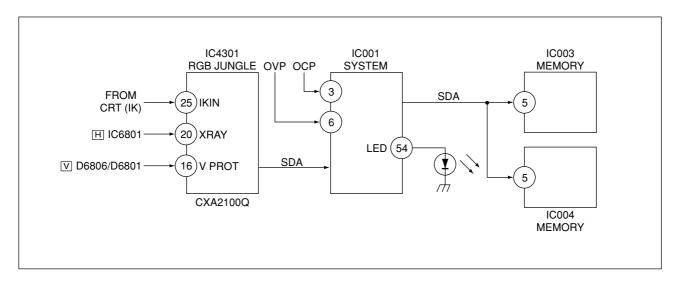
To clear the result display to "0", press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel 8 → 0

[Quitting Self-diagnostic screen]

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT



+B overcurrent (OCP) Occurs when an overcurrent on the +B(135) line is detected by

Q6610 and Q6609.

If Q6610 and Q6609 go to ON, the voltage to the pin3 of IC001 go to

UP. The unit will automatically turn off.

+B overvoltage (OVP)

Occurs when an overvoltage on the +B(135) line is detected by D6635, Q6611 and Q6612. If Q6611 and Q6612 go to ON, the

voltage to pin6 of IC001 go to UP. The unit will automatically turn off.

Vertical deflection failure Occurs when an absence of the vertical deflection pulse is detected

by Q6811, Q6819, Q6820, Q6821 and D6801. Shut down the power

supply.

White balance failure If the RGB levels do not balance or become low level within 5

seconds. This error will be detected by IC4301.

TV will stay on, but there will be no picture.

High voltage protector of Horizontal Deflection Occurs when an overvoltage of horizontal pulse is detected by

D6809 and IC6801.

If the voltage of 7 pin of IC6801 goes to High, the voltage to pin20 of

IC4301 go to UP. The unit will automatically turn off.

The operating instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

WARNING

- Dangerously high voltages are present inside the TV.
- TV operating voltage: 220-240 V AC.



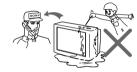
For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.



For children's safety, do not leave children alone with the TV. Do not allow children to climb onto it.



To prevent fire or shock hazard, do not expose the TV to rain or moisture.



Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.



Do not block the ventilation openings of the TV. Do not install the TV in a confined space, such as a bookcase or built-in cabinet.



Clean the TV with a dry and soft cloth. Do not use benzine, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.



Do not place any objects on the TV.



Do not plug in too many appliances to the same power socket. Do not damage the power cord.



Do not open the cabinet and the rear cover of the TV as high voltages and other hazards are present inside the TV. Refer servicing and disposal of the TV to qualified personnel.



Your TV is recommended for home use only. Do not use the TV in any vehicle or where it may be subject to excessive dust, heat, moisture or vibrations.

SECTION 1 GENERAL

WARNING (continued)



Install the TV using the recommended TV stand (SU-ES38G) or its equivalent. Ensure that the TV stand and floor surface is stable and can support the TV set weight (112kg).





Pull the power cord out by the plug. Do not pull the power cord itself. Even if your TV is turned off, it is still connected to the AC power source (mains) as long as the power cord is plugged in. Unplug the TV before moving it or if you are not going to use it for several days.

Using Your New TV

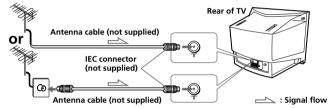
Getting Started

- Do not plug in the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.
- To avoid battery leakage and damage to the remote, remove the batteries from the remote if you are not going to use it for several days. If any liquid that leaks from the batteries touches you, immediately wash it away with water.

Step 1

Connect the antenna

If you wish to connect a VCR, see the **Connecting a VCR** diagram below.

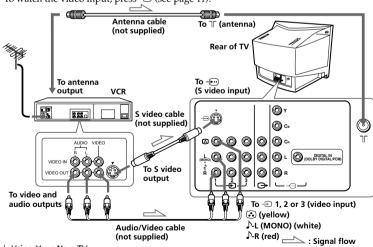


• If the input signal to the ¬¬ (antenna) terminal is very weak, the picture may automatically become dimmed and "NO SIGNAL" will appear on the screen. This does not indicate a malfunction.

Connecting a VCR

 ∞

To watch the video input, press € (see page 11).



Notes

- If you connect a monaural VCR, connect the yellow plug to 🔾 (the yellow jack) and the black plug to 1-L (MONO) (the white jack).
- If you connect a VCR to the ¬¬¬ (antenna) terminal, preset the signal output from the VCR to the program number 0 on the TV.
- When both the ⊕ (S video input) and ⊕ 1 (video input) are connected, the 🖅 (S video input) is automatically selected. To view the video input to 1 (video input), disconnect the S video cable.
- When no signal is input from the connected video equipment, the TV screen becomes blue.

Step 2

Insert the batteries into the remote

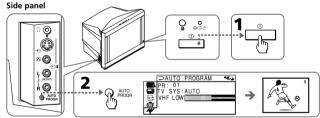
Notes

- Do not use old batteries or different types of batteries together.
- To operate some of the functions of your TV, you may have to open the remote control cover.

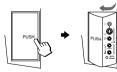


Step 3

Preset the channels automatically



- To stop the automatic channel presetting, press MENU twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 42).
- To open the side panel of your TV, push on it until you hear a click, then it will open.

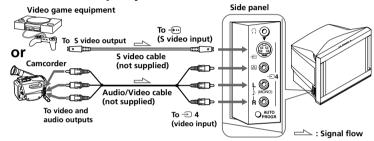


Using Your New TV | 5

Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game, or stereo system. To watch and operate the connected equipment, see pages 11 and 26.

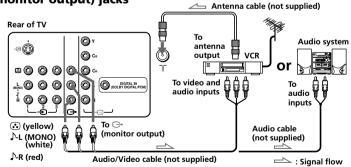
Connecting a camcorder/video game equipment using the **→** (video input) jacks



Notes

- When connecting video game equipment, display the "FEATURE" menu and select "ON" for "GAME MODE" to adjust the picture setting that is suitable for video games (see page 37).
- You can also connect video equipment to the ⊕ 1, 2, or 3 (video input) jacks at the rear of your TV.
- When both the → (S video input) and → 4 (video input) are connected, the (S video input) is automatically selected. To view the video input to 1 4 (video input), disconnect the S video cable.

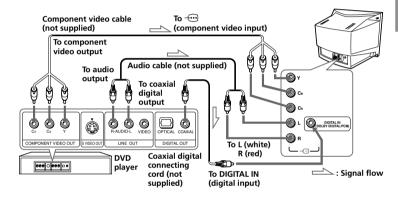
Connecting audio/video equipment using the → (monitor output) jacks



• If you select "DVD" on your TV screen, no signal will be output at the (monitor output) jacks (see page 11).

Connecting a DVD player to ← (component video input)

- 1 Using an audio cable, connect R and L under ← (component video input) on your TV to the LINE OUT, AUDIO R and L output connectors on your DVD player.
- 2 Using a coaxial digital connecting cord, connect DIGITAL IN under → (component video input) on your TV to the DIGITAL OUT, COAXIAL output connector on your DVD player.
- 3 Using a component video cable, connect Y, C_B, and C_R under ← (component video input) on your TV to the COMPONENT VIDEO OUT Y, CB, and CR output connectors on your DVD player.
- 4 Press \odot on the remote or the TV until "DVD" appears on the screen.



- If your DVD player can output interlace and progressive mode signals, select the interlace output when connecting to $\rightarrow \cdots$ (component video input) on your TV. Your TV can receive either 525i/60Hz or 625i/50Hz interlace signals.
- Some DVD player terminals may be labeled differently:

Connect	To (on the DVD player)
Y (green)	Y
C _B (blue)	Cb, B-Y or PB
C _R (red)	Cr, R-Y or PR

• When connecting to - (component video input) on your TV, you must connect Y, CB, and CR to receive the video signals, and at least connect DIGITAL IN to receive digital audio signals or connect L and R to receive analog audio signals (see page 33).

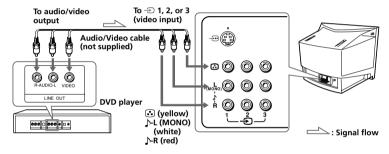
Connecting optional components (continued)

Note

When making connections to DIGITAL IN under ← (component video input) on your TV, always set "DIGITAL IN: OFF" in the "A/V CONTROL" menu. After completing all connections, then set "DIGITAL IN: ON". If you set "DIGITAL IN: ON" while still making connections to ← DIGITAL IN (component video input), a loud noise may suddenly come out from the speakers, affecting your hearing and causing damage to the speakers (see page 33).

Connecting a DVD player to € (video input)

Connect → 1, 2, or 3 (video input) \(\int \) (audio/video) connectors on your TV to LINE OUT on your DVD player.



Notes

- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust the sharpness ("SHARP") under "PERSONAL ADJUST" in the "PICTURE MODE" menu (see page 32).
- Connect your DVD player directly to your TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.

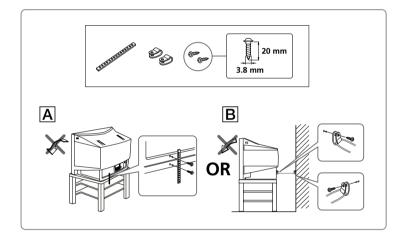
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

With the supplied screws, attach the stabilizer band to the TV stand and to the rear of the TV using the provided hole.

OR

B Put the cord or chain through the clamps to secure the TV against a wall or pillar.



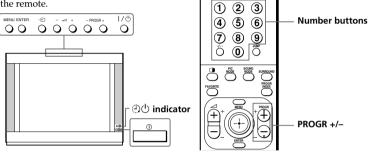
Note

• Use only the supplied screws. Use of other screws may damage the TV.

 $8 \mid \text{Using Your New TV}$ Using Your New TV

Watching the TV

This section explains various functions and operations used while watching the TV. Most operations can be done using the remote.



Press ① to turn on the TV.

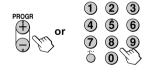
When the TV is in standby mode (the (b) indicator on the TV is lit red), press 1/0 on the remote or on the TV.



O DRCMF O

Press PROGR +/- or the number buttons to select the program number.

> For double digit numbers, press -/--, then the number (e.g., for 25, press -/--, then 2 and 5).

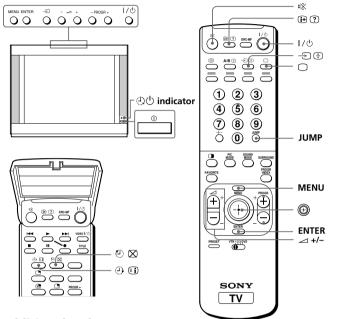


• When you turn on the TV, either the program number or video input is displayed for approximately 40 seconds. The ECO MODE (ttp) icon will also appear if "ECO MODE" in the "FEATURE" menu is set "ON" (see

To select a program number quickly

- (1) Press and hold PROGR +/-.
- (2) Release PROGR +/- when the desired program number appears.

• When you select a program number quickly, the picture may be disrupted. This does not indicate a malfunction.



Additional tasks

То	Press
Turn off temporarily	l /也. The 也 indicator on the TV lights up red.
Turn off completely	① on the TV.
Adjust the volume	⊿ +/−.
Mute the sound	°×.
Watch the video input (VCR, camcorder, etc.)	② (or ② on the TV) to select "VIDEO 1", "VIDEO 2", "VIDEO 3", "VIDEO 4"or "DVD". To return to the TV screen, press ○ (or ③ on the TV).
Jump back to the previous program number	JUMP.
Display the on-screen information*	() .

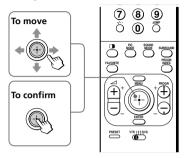
* Some picture/sound settings, and either the program number or video input are displayed. The on-screen display for the picture/sound settings disappears after about three seconds.

Watching the TV (continued)

Using the Remote Control Button Joystick (📵)

You can select the menu item on the screen by moving (a) up, down, left or right (see page 30).

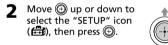
To confirm a selected item, press ①. You can also press ENTER on the remote to confirm a selected item.

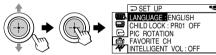


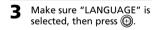
Changing the menu language

You can change the menu language as well as the on-screen language. For details on how to use the menu, see **Introducing the menu system** on page 28.



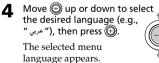


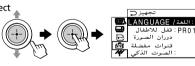




 \sim







To return to the normal screen

Press MENU.

Setting the Wake Up timer

1 Press (1) until the desired period of time appears.

The Wake Up timer starts immediately after you have set it.



- **2** Select the program number or video input you want to wake up to.
- **3** Press I/ \bigcirc , or set the Sleep timer if you want the TV to turn off automatically.

The ① indicator on the TV lights up orange.

To cancel the Wake Up timer

Press - until "WAKE UP TIMER: OFF" appears, or turn off the TV's main power.

Note

 If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into standby mode. To resume watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press (4) until the desired period of time appears.

The Sleep timer starts immediately after you have set it.



To cancel the Sleep timer

Press (4) until "SLEEP TIMER: OFF" appears, or turn the TV off.

12 Using Your New TV Using Your New TV

SOUND MODE PIC MODE PIC MODE PIC MODE

Selecting the picture mode

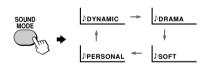
Press PIC MODE repeatedly until the desired picture mode is selected.



Select	То
"DYNAMIC"	view high contrast pictures.
"STANDARD"	view normal pictures.
"HI-FINE"	view higher density pictures with mild contrast.
"PERSONAL"	receive the last adjusted picture setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 32).

Selecting the sound mode

Press SOUND MODE repeatedly until the desired sound mode is selected.

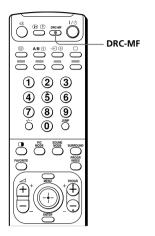


Select	То
"DYNAMIC"	listen to dynamic and clear sound that emphasizes both the low and high tones.
"DRAMA"	listen to sound that emphasizes voice and high tones.
"SOFT"	listen to soft sound.
"PERSONAL"	receive the last adjusted sound setting from the "ADJUST" option in the "A/V CONTROL" menu (see page 32).

Tij

 You can also set the picture and sound modes using the menu (see Changing the "A/V CONTROL" setting on page 31). — "DRC-MF"

The Digital Reality Creation-Multi Function (DRC-MF) feature allows you to enjoy higher quality pictures on your TV. You can select "DRC1250" to view super real (higher density) pictures, "DRC100" to reduce flicker, or "DRC PROGRESSIVE" to reduce any jittering on the screen if necessary.



Press DRC-MF repeatedly until you receive the desired picture quality.



Select	То
"DRC1250"	view higher density pictures.
"DRC100"	reduce flicker on the screen.
"DRC PROGRESSIVE"	reduce jitter of any small areas or scanning lines (e.g., letters or the edge of objects) on the screen.

Tips

- You can also select the DRC-MF option using the menu (see **Changing the** "A/V CONTROL" setting on page 31).
- When the broadcast signal is weak, you may see some dots or noise on the TV screen. To reduce this interference, display the "A/V CONTROL" menu and select "ADJUST" in "PICTURE MODE", then adjust "SHARP" to reduce the sharpness (see page 32).

Note

 The DRC-MF mode is not selectable when using the "PROGRAM INDEX" or "FAVORITE CH" feature, or when the "GAME MODE", Picture-In-Picture ("PIP"), or "TWIN" mode is turned "ON".

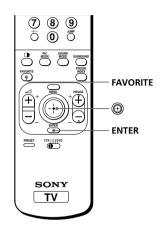
The DRC-MF logo ($\fbox{\ \ }$) and "DRC-MF" are trademarks of Sony Corporation.

Viewing your favorite channels

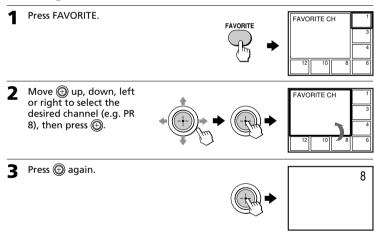
— "FAVORITE CH"

You can display seven favorite channels for quick and easy selection.

The last seven channels selected with the number buttons are displayed in "AUTO" mode. You can set up your own favorite channels in "MANUAL" mode under the "FAVORITE CH" menu (see Programming the favorite channels setting on page 40).



Selecting a favorite channel



Note

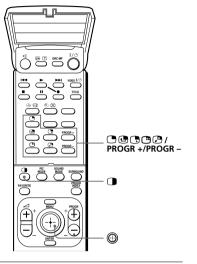
16 | Advanced Operations

• When you use your TV for the first time, seven preset channels appear.

Watching two programs at the same time

— "PIP", "TWIN"

With the Picture-in-Picture (PIP) or TWIN pictures features, you can display a different program number or video input within or beside the main picture.



Displaying the PIP screen

Press .

Displaying TWIN pictures

To return to the normal screen

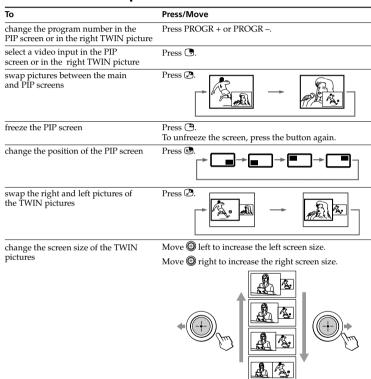
Press ${\Large \bigcirc}$ (when displaying the PIP screen) or ${\Large \bigcirc}$ (when displaying the TWIN picture screen).

Tip

 You can also display the PIP screen or TWIN pictures and operate some of its functions using the menu (see Changing the "MULTI PICTURE" setting on page 34).

Watching two programs at the same time (continued)

Additional PIP/TWIN pictures tasks



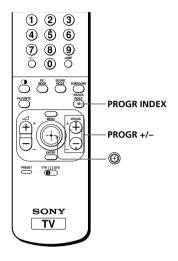
Notes

- The 🖰 button does not function in the TWIN pictures mode.
- When you display a video input on the PIP screen at a faster/slower speed, the picture may be disrupted depending on the VCR type.
- If you display different color systems on the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be disrupted. This does not indicate a malfunction of the TV.
- In the TWIN picture screen, you can only operate and hear the sound of the main left screen () appears on the screen).
- When the button is pressed, the TV screen flickers or goes blank for about one second before the TWIN pictures appear. This does not indicate a malfunction of the TV.

Displaying multiple programs

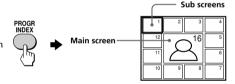
- "PROGRAM INDEX"

The PROGRAM INDEX feature displays all of the preset program numbers on twelve or seven sub screens for direct selection.

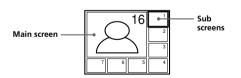


Press PROGR INDEX.

The first twelve preset program numbers appear one by one, clockwise from the upper left corner.



When the number of the preset program numbers is less than eight, the first seven preset program numbers appear one by one, clockwise from the upper right corner.



Tip

 When you press the PROGR INDEX button in the TWIN pictures mode, the left picture appears as the main screen of the PROGRAM INDEX mode.

Displaying multiple programs (continued)

To view the next or the previous twelve preset program numbers

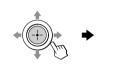
This works only when the number of the preset program numbers is more than twelve.

Press PROGR +/- on the remote or the TV.



To select the desired program number directly from the sub screens

1 Move (a) up, down, left or right to move the frame to the screen of the program number you want to watch.



















Tip

· Pressing the number buttons directly displays the program number.

To return to the normal screen

Press PROGR INDEX again, or:

- 1 Select "PROGRAM INDEX" from the "MULTI PICTURE" menu.
- 2 Press (+)

Tip

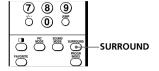
• You can also display multiple program numbers using the menu (see Changing the "MULTI PICTURE" setting on page 34).

Note

• When displaying multiple program numbers, only the sound of the main screen is heard.

Listening with surround sound

The surround feature enables you to enjoy the sound effects of a concert hall or movie theater.



Press SURROUND repeatedly until you receive the desired surround sound.



Select	То
"DO VIRTUAL"	listen to Dolby* Surround encoded sound.
"TruSurround"	listen to the surround sound that spreads out to the rear of a room.
"SIMULATED"	listen to monaural sound with a stereo-like effect.
"OFF"	turn off the surround sound.

Tip

• You can also select the surround option using the menu (see **Changing the** "A/V CONTROL" setting on page 31).

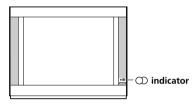
Notes

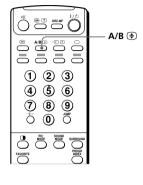
- The Virtual Dolby Surround of this model consists of Dolby Digital, Dolby Pro Logic and TruSurround.
- The "DO VIRTUAL" (Virtual Dolby Digital) is only available when receiving a Dolby Digital signal through the ⊕ DIGITAL IN (component video input) jack at the rear of your TV and "DIGITAL IN: ON" in the "A/V CONTROL" menu is selected (see pages 7 and 31).
- When using the DIGITAL IN (component video input) jack at the rear
 of your TV, the available surround modes depend on the type of digital
 signal being received.
- "SIMULATED" uses SRS (MONO).
- * Manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", the double-D symbol (DD) and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

"**TruSurround**" is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos.4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents.

Enjoying stereo or bilingual programs

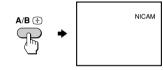
You can enjoy stereo sound or bilingual programs of NICAM and A2 stereo systems.



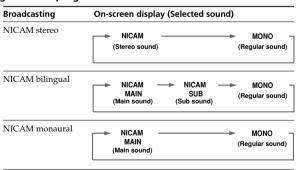


Press A/B repeatedly until you receive the sound you want.

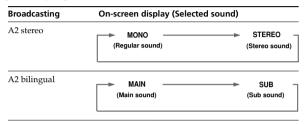
The on-screen display changes to show the selected sound. The (7) indicator on the TV lights up red when receiving any stereo or bilingual program.



When receiving a NICAM program



When receiving an A2 program



- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM program, select "MONO". The sound becomes monaural, but the noise is reduced.

If the sound is distorted when receiving a monaural program

Press A/B repeatedly until "MONO" appears on the screen.

To cancel the monaural sound setting, press A/B again until "AUTO" appears on the screen.



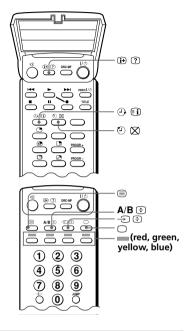
Notes

- The "MONO" or "AUTO" setting is memorized for each program
- You cannot receive a stereo broadcast signal when the TV is in the "MONO" setting. Normally, set the TV to "AUTO".

Viewing Teletext

(Except KV-ES38M90)

Some TV stations broadcast an information service called Teletext which allows you to receive various information, such as stock market reports and news.



Displaying Teletext

- **1** Select a TV channel that carries the Teletext broadcast you want to watch.
- **2** Press ⊜ to display the text.

A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100?" is displayed at the top left corner of the screen after approximately 10 seconds.



To turn off Teletext

Press \bigcirc .

Additional Teletext tasks

То	Do this
display a Teletext page on the TV picture	Press \blacksquare . Each time you press \blacksquare , the screen changes as follows: Teletext \rightarrow Teletext and TV \rightarrow TV.
check the contents of a Teletext service	Press (a). An overview of the Teletext contents, including page numbers, appears on the screen.
select a Teletext page	Press the number buttons to enter the three-digit page number of the desired Teletext page.* If you make a mistake, reenter the correct page number. To access the next or previous page, press PROGR +/
hold (pause) a Teletext display	Press ⊕ to display the symbol "⊕" at the top left corner of the screen. To resume normal Teletext viewing, press ⊕ or ⊜.
reveal concealed information (e.g., an answer to a quiz)	Press ②. To conceal the information, press the button again.
enlarge the Teletext display	Press ⊕. Each time you press ⊕, the Teletext display changes as follows: Enlarge upper half → Enlarge lower half → Normal size.
stand by for a Teletext page while watching a TV program	Enter the Teletext page number that you want to refer to, then press ⋈. When the page number is displayed, press ⊜ to show the text.

^{*} You can also select a Teletext page that appears in the colored columns at the bottom of the screen using the corresponding color-coded buttons on the remote.

Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcast, colored menus appear at the bottom of the screen. The color of each menu corresponds to the color-coded buttons on the remote (red green , yellow , and blue).

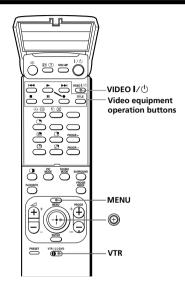
To access a FASTEXT menu

Press the color-coded button on the remote corresponding to the menu you want. The menu page appears on the screen after a few seconds.

24 | Advanced Operations | 25

Operating optional components

You can use the supplied remote to operate Sony video equipment such as Beta, 8 mm, VHS or DVD.



Setting up the remote to work with other connected equipment

Switch VTR to select the desired equipment type (see the chart below).

For example, to operate a Sony 8 mm VCR:



To control	Select
DVD	DVD
VTR1 (Beta)	1
VTR2 (8 mm)	2
VTR3 (VHS)	3

Notes

- If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR switch.
- If the equipment does not have a certain function, the corresponding button on the remote will not operate.

Operating a VCR using the remote

То	Press
turn on/off	VIDEO I /Ů
record	➤ while pressing ●.
play	>
stop	•
fast forward (►►)	▶ ►I
rewind the tape (◀◀)	I 44
pause	II
	Press again to resume normal playback.
search the picture forward (►►)	▶▶ or ◄◀ during playback.
or backward (◀◀)	Release to resume normal playback.

Operating a DVD player using the remote

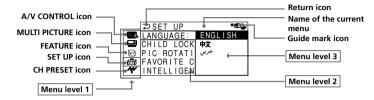
То	Press
turn on/off	VIDEO I /Ů
play	>
stop	•
pause	Press again to resume normal playback.
step through different tracks of a disc	▶► to step forward or ► to step backward.
display the title menu	TITLE
display the menu	MENU while holding down ●.
select the menu item	Move ⊕ up, down, left or right while holding down ●.

26 | Advanced Operations

Advanced Operations

Introducing the menu system

The MENU button lets you open a menu and change the settings of your TV. The following is an overview of the menu system.



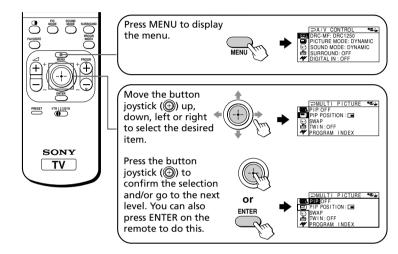
Level 1	Level 2	Level 3/Function
"A/V CONTROL"	"DRC-MF"	Select the "DRC-MF" mode: "DRC1250" → "DRC100" → "PROGRESSIVE"
	"PICTURE MODE"	Select the picture mode: "DYNAMIC" → "STANDARD" → "HI-FINE" → "PERSONAL" → "ADJUST"
	"ADJUST"	Adjust the "PERSONAL" option: "PICTURE" → "COLOR" → "BRIGHT" → "HUE" → "SHARP"
	"SOUND MODE"	Select the sound mode: "DYNAMIC" → "DRAMA" → "SOFT" → "PERSONAL" → "ADJUST"
	"ADJUST"	Adjust the "PERSONAL" option: "BASS" → "TREBLE" → "BALANCE" → "BBE"*
	"SURROUND"	Select the "SURROUND" mode: "DD VIRTUAL" → "TruSurround" → "SIMULATED" → "OFF"
	"DIGITAL IN"	Activate or deactivate the digital audio input jack at the rear of your TV.
"MULTI	"PIP"	Display a PIP screen within the main picture.
PICTURE"	"PIP POSITION"	Change the position of the sub screen.
	"SWAP"	Swap the pictures between the main and sub screens.
	"TWIN"	Display a program number or video input beside the main screen.
	"PROGRAM INDEX"	Display all the preset program numbers at the same time.
"FEATURE"	"WIDE MODE"	Change the picture size.
	"ECO MODE"	Reduce power consumption of your TV.
	"GAME MODE"	Adjust the picture settings for video games.

Level 1	Level 2	Level 3/Function
"SET UP"	"LANGUAGE"	Change the menu language: "ENGLISH" \rightarrow "中文" (Chinese) \rightarrow " ${}$ " (Arabic)
æ	"CHILD LOCK"	Lock out specific channels.
	"PIC ROTATION"	Rotate the picture.
	"FAVORITE CH"	Set favorite channels.
	"INTELLIGENT VOL"	Adjust the volume automatically.
"CH PRESET"	"AUTO PROGRAM"	Preset channels automatically.
	"MANUAL PROGRAM"	Preset channels manually.
	"SKIP"	Skip unwanted or unused program numbers.
	"TV SYS"	Select the TV system: "B/G" \rightarrow "I" \rightarrow "D/K" \rightarrow "M"
	"COL SYS"	Select the color system: "AUTO" \rightarrow "PAL" \rightarrow "SECAM" \rightarrow "NTSC3.58" \rightarrow "NTSC4.43"

^{*} The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and the BBE symbol are the trademarks of BBE Sound, Inc.

Introducing the menu system (continued)

How to use the menu



Other menu operations

То	Press/Move
Adjust the setting value	Move up, down, left or right.
Move to the next/previous menu level	Move ⊕ left or right.
Cancel the menu	Press MENU.

- If you want to exit from Menu level 2 to Menu level 1, move (a) up or down until the return icon (→) is highlighted, then press ⊕ or ENTER.
- the operations above.

Note

• If more than 60 seconds elapse between entries, the menu screen automatically disappears.

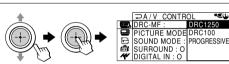
Changing the "A/V **CONTROL"** setting

The "A/V CONTROL" menu allows you to adjust the picture and sound settings.

- Press MENU.
- Make sure the "A/V CONTROL" icon (is selected, then press (4).



Move 倒 up or down to select the desired item (e.g. "DRC-MF"), then press (11).



Select	То
"DRC-MF"	choose either "DRC1250", "DRC100" or "PROGRESSIVE".
"PICTURE MODE"	choose either "DYNAMIC", "STANDARD", "HI-FINE", "PERSONAL"*, or "ADJUST".
"SOUND MODE"	choose either "DYNAMIC", "DRAMA", "SOFT", "PERSONAL"*, or "ADJUST".
"SURROUND"	choose either "DD VIRTUAL", "TruSurround", "SIMULATED", or "OFF".
"DIGITAL IN"	choose either "ON" or "OFF".

* When the "PERSONAL" mode is selected, you can receive the last adjusted picture or sound settings from the "ADJUST" option (see page 32).

Tip

• For details on the options under the "DRC-MF", "PICTURE MODE"/ "SOUND MODE", "SURROUND" and "DIGITAL IN" modes, see pages 15, 14, 21 and 33 respectively.

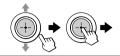
To return to the normal screen

Press MENU.

Changing the "A/V CONTROL" setting (continued)

Adjusting the "ADJUST" options under "PICTURE MODE"

Move ⊕ up or down to select the desired item (e.g., "COLOR"), then press ⊕.



Adjust the value according to the following table, then press 🕀.

For	Move down or left to	Move 📵 up or right to
"PICTURE"	decrease picture contrast	increase picture contrast
"COLOR"	decrease color intensity	increase color intensity
"BRIGHT"	darken the picture	brighten the picture
"HUE"*	increase red picture tones	increase green picture tones
"SHARP"	soften the picture	sharpen the picture

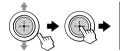
^{*} You can adjust "HUE" for the NTSC color system only.

Repeat the above steps to adjust other items.

The adjusted settings will be received when you select "PERSONAL".

Adjusting the "ADJUST" options under "SOUND MODE"

1 Move (1) up or down to select the desired item (e.g., "BALANCE"), then press (1).





2 Adjust the value according to the following table, then press 📵

For	Move 倒 down or left to	Move 📵 up or right to
"BASS"	decrease the bass.	increase the bass.
"TREBLE"	decrease the treble.	increase the treble.
"BALANCE"	increase the left speaker's volume.	increase the right speaker's volume.
"BBE"	Move (a) up or down to: select "HIGH" for higher enhancement of sound clarity; select "LOW" for lower enhancement of sound clarity; select "OFF" to turn off the BBE sound.	

Repeat the above steps to adjust other items.

The adjusted settings will be received when you select "PERSONAL".

Setting the "DIGITAL IN" options

In the "DIGITAL IN" menu, move (1) up or down to select the desired option (see table below).



Select	То
"ON"	receive digital audio signal through $ eqreceive$ DIGITAL IN (component video input) jack.
"OFF"	receive analog audio signal through $\stackrel{\longleftarrow}{\longleftarrow}$ L and R (component video input) jack.

Press to confirm the selected option.



Note

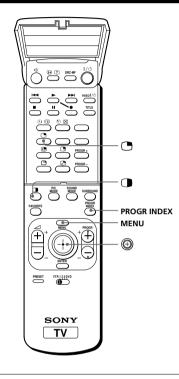
 Your TV can only receive Dolby Digital or Linear PCM format digital signals through the ← DIGITAL IN (component video input) jack (see page 7). Receiving any other format digital signal may cause unwanted noise or no sound from the speakers.

Tip

• For details on the menu system and how to use the menu, refer to **Introducing the menu system** on page 28.

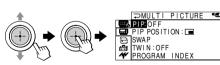
Changing the "MULTI PICTURE" setting

The "MULTI PICTURE" menu allows you to use the Picture-in-Picture (PIP), TWIN pictures, or PROGRAM INDEX features.

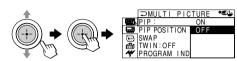


Press MENU.

Move (a) up or down to select the "MULTI PICTURE" icon (➡), then press ⊕.



Move ① up or down to select the desired item (e.g., "PIP"), then press ①.



Select	То
"PIP"	display the PIP screen within the main picture. Move (a) up or down to select "ON", then press (a). To cancel, press (b) or select "OFF", then press (a).
"PIP POSITION"	change the position of the PIP screen. Move ② up or down to select the desired position, then press ③.
	→ ■ ↔ ■ ↔
"SWAP"	swap the main and PIP screens, or right and left pictures of the TWIN pictures.
"TWIN"	display a different TV program or video beside the main picture. Move ⊚ up or down to select "ON", then press ⊚. To cancel, press □ or select "OFF", then press ⊚.
"PROGRAM INDEX"	view multiple program numbers on the sub-screens. To cancel, press PROGR INDEX.

To return to the normal screen

Press MENU.

Tip

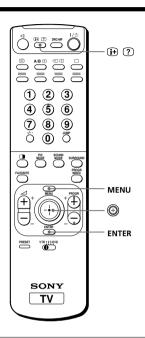
• For details on the menu system and how to use the menu, see Introducing the menu system on page 28.

34 | Adjusting Your Setup (MENU)

Adjusting Your Setup (MENU) | 35

Changing the "FEATURE" setting

The "FEATURE" menu allows you to change the size of the picture on the screen when receiving wide mode (16:9) picture signals. You can also adjust the picture setting that is suitable for viewing video games, and reduce the power consumption of your TV.

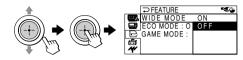


Press MENU.

Move ⊕ up or down to select the "FEATURE" icon (⊜), then press ⊕.



Move (a) up or down to select the desired item (e.g., "WIDE MODE"), then press (a).



Select	То
"WIDE MODE"	change the size of the picture when receiving wide-mode (16:9) picture signal.
	Move ⊕ up or down to select "ON", then press ⊕.
	•
	To restore the normal picture size, select "OFF", then press ①.
"ECO MODE"	reduce power consumption of your TV to save energy.
	Move $\textcircled{0}$ up or down to select "ON", then press $\textcircled{0}$. To cancel, select "OFF", then press $\textcircled{0}$.
"GAME MODE"	adjust the picture setting that is suitable to view video games.
	Move ⊕ up or down to select "ON", then press ⊕. To cancel, select "OFF", then press ⊕.

Notes

- When you turn on "ECO MODE", the picture may become dimmer.
- "WIDE MODE" and "GAME MODE" is available only when receiving signals through the ⊕ (video input), ⊕ (S video input), or ⊕ (component video input) jacks at the side and rear of your TV.
- If "ECO MODE" is on, the ECO MODE (and) icon will appear at the bottom right corner of the screen when you turn on the TV or when you press (a) on the remote (see pages 10 and 11).

To return to the normal screen

Press MENU.

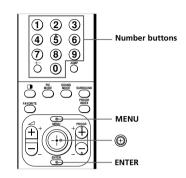
Tip

• For details on the menu system and how to use the menu, see **Introducing** the menu system on page 28.

36 | Adjusting Your Setup (MENU) Adjusting Your Setup (MENU)

Changing the "SET UP" setting

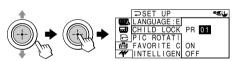
The "SET UP" menu allows you to: change the menu language, block program numbers, adjust the picture position, program your favorite channels, and adjust the volume automatically.



- Press MENU.
- Move 🕀 up or down to select the "SET UP" icon (∰), then press ⊕.



Move 📵 up or down to select the desired item (e.g., "CHILD LOCK"), then press 🕀.



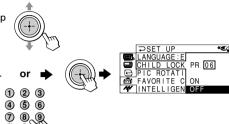
Select	То
"LANGUAGE"	change the menu language (see page 12).
"CHILD LOCK"	block program numbers (see page 39).
"PIC ROTATION"	adjust the picture position when it is not aligned with the TV screen. Move (a) up or right to adjust the position clockwise, then press (b). Move (c) down or left to adjust the position counterclockwise, then press (c).
"FAVORITE CH"	program your favorite channels (see page 40).
"INTELLIGENT VOL"	adjust the volume of all program numbers automatically. Move ③ up or down to select "ON", then press ⑤. To cancel, select "OFF", then press ⑥.

To return to the normal screen

Press MENU.

Blocking program numbers ("CHILD LOCK")

After selecting "CHILD LOCK", either move (1) up or down, or press the number buttons (or PROGR +/-) to select the desired program number (e.g. PR 06), then press (4).



Move (19) up or down to select "ON", then press (1). To cancel, select "OFF". The lock symbol () appears on the screen when

"ON" is selected.



If a locked program number is selected, the lock symbol appears on the screen.



Repeat steps 1 and 2 to lock other program numbers.

To return to the normal screen

Press MENU.

Note

• If you preset a locked program number, that program number will be unlocked automatically (see page 41).

Changing the "SET UP" setting (continued)

Programming the favorite channels setting

After selecting "FAVORITE CH", make sure "MODE" is selected, then press (4).



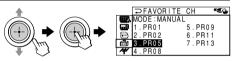
Move (19) up or down to select "MANUAL", then press (+).



Move (19) up or down to select the favorite channel you want to program, then press (4)



Move (11) up or down to change the program number, then press



Repeat steps 3 and 4 to set other favorite channels.

To return to the normal screen

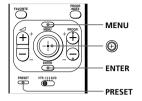
Press MENU.

• If you press the PROGR +/- buttons or number buttons in step 4 above, the TV will display the program number immediately.

· To view the favorite channels that you have programmed, refer to Viewing your favorite channels on page 16.

Changing the "CH PRESET" setting

The "CH PRESET" menu allows you to adjust the setup of your TV. For example, you can manually tune in a channel with a weak signal that fails to be tuned in by automatic presetting.



Press MENU.

Move (19) up or down to select the "CH PRESET" icon (44), then press (49)



Move (19) up or down to select the desired item (e.g., "MANUAL PROGRAM"), then press (+1).



Select	То
"AUTO PROGRAM"	preset channels automatically.
"MANUAL PROGRAM"	preset channels manually. See Presetting channels manually on page 42.
"SKIP"	skip unwanted or unused program numbers. 1 Either move ③ up or down, or press the number buttons (or PROGR +/-) until the unused or unwanted program number appears, then press ⑥. 2 Select "ON", then press ⑥. 3 To disable other program numbers, repeat steps 1 and 2. To cancel, select "OFF" in step 2.
"TV SYS"	select the TV system.
"COL SYS"	select the color system. Normally, set this to "AUTO".

To return to the normal screen

Press MENU.

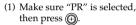
• For details on the menu system and how to use the menu, refer to Introducing the menu system on page 28.

KV-ES38M31/ES38M61/ES38M90/ES38M91

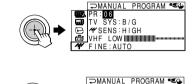
Changing the "CH PRESET" setting (continued)

Presetting channels manually

After selecting "MANUAL PROGRAM", select the program number to which you want to preset a channel.



(2) Move (1) up or down until the program number you want to preset (e.g., program number "10") appears on the menu, then press (1)



TV SYS:B/G

∜SENS: HIGH

FINE: AUTO

/HF LOW |||||||||||||||



- You can also select the "MANUAL PROGRAM" menu directly by pressing the PRESET button on the remote.
- You can also select the program number with the PROGR +/- or number buttons.

Select the desired channel.

- (1) Make sure either "VHF LOW", "VHF HIGH", or "UHF" is selected, then press (+).
- (2) Move (1) up or down until the desired channel's broadcast appears on the TV screen, then press

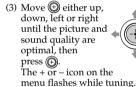


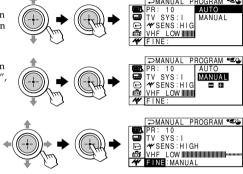
- If the sound of the desired program number is abnormal, select the appropriate TV system.
 - (1) Move up or down to select "TV ŜYS", then press (+).
 - (2) Move (1) up or down until the sound becomes normal, then press (+).

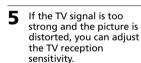


If you are not satisfied with the picture and sound quality, you may be able to improve them by using the "FINE" tuning feature. (1) Move (1) up or down to select "FINE", then press (+).

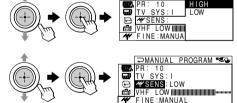








- (1) Move (1) up or down to select "# SENS", then press (4).
- (2) Move (1) up or down to select "LOW", then press (+).



To return to the normal screen

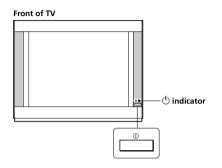
Press MENU.

Notes

- The TV system ("TV SYS") and the TV reception sensitivity (" SENS") settings are memorized for each program number.
- If you preset a locked program number, that program number will be unlocked automatically (see page 39).

Self-diagnosis function

Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the () (standby) indicator flashes red. The number of times the (1) indicator flashes indicates the possible



- Check that the \circlearrowleft indicator flashes red several times between three-second
- Count the number of times the 1 indicator flashes.
- Press ① (main power) to turn off your TV.
- Inform your nearest Sony service center about the number of times the (indicator flashed. Be sure to note the model name and serial number located on the rear of your TV.

Troubleshooting

If you have any problem while viewing your TV, please check the following troubleshooting guide. If the problem persists, contact your Sony dealer.

Symptom	Possible cause	Solutions	Page
Snowy picture	The connection is loose or the cable is damaged.	Check the antenna cable and connection on the TV, VCR and at the wall.	4
1 1 1 1	Channel presetting is inappropriate or incomplete.	Press the PRESET button to display the "MANUAL PROGRAM" menu and preset the channel again.	42
Noisy sound	The antenna type is inappropriate.	Check the antenna type (VHF/UHF). Contact a Sony dealer for advice.	-
or	The antenna direction needs adjustment.	Adjust the antenna direction. Contact a Sony dealer for advice.	-
"NO SIGNAL" appears on the screen and the picture is dimmed.	Signal transmission is low.	Try using a booster.	-
Distorted picture Noisy sound	Broadcast signals are too strong.	Press the PRESET button to display the "MANUAL PROGRAM" menu. Then, select " SENS: LOW". Turn off or disconnect the booster if it is in use.	43
Good picture	The TV system setting or channel presetting is inappropriate or incomplete.	If the sound of all the channels are noisy, display the "CH PRESET" menu and select "AUTO PROGRAM" to preset the channels again.	41
Noisy sound	acompice.	 If the sound of some channels are noisy, select the channel, then display the "CH PRESET" menu and select the appropriate TV system ("TV SYS"). 	42
	The digital audio signal is inappropriate.	Set "DIGITAL IN: OFF" in the "A/V CONTROL" menu and connect L and R (component video input) on your TV to receive analog audio signals.	7, 33

continued

Additional Information | 45

Troubleshooting (continued)

Symptom	Possible cause	Solutions	Page
No picture	The power cord, antenna or VCR is not connected.	Check the power cord, antenna and the VCR connections.	4
	• The TV is not turned	• Press I/() (power).	10
No sound	on.	Press ① (main power) on the TV to turn off the TV for about five seconds, then turn it on again.	11
Good picture	The volume level is too low.	• Press ∠ + to increase the volume level.	11
	• The sound is muted.	• Press old to cancel the muting.	11
No sound	The digital audio signal is inappropriate.	Set "DIGITAL IN: OFF" in the "A/V CONTROL" menu and connect ⊕ L and R (component video input) on your TV to receive analog audio signals.	7,33
	The "DIGITAL IN" setting in the "A/V CONTROL" menu is inappropriate.	When connecting to	33
Dotted lines or stripes	There is local interference from cars, neon signs, hair dryers, power	Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for	-
· · · · · · · · · · · · · · · · · · ·	generators, etc.	advice.	
Double images or "ghosts"	Broadcast signals are reflected by nearby	Use a highly directional antenna. Use the first trains (WEINEW) for a time.	-
	mountains or buildings.	Use the fine tuning ("FINE") function.	43
	The antenna direction needs adjustment.	Adjust the antenna direction. Contact a Sony dealer for advice.	-
	Use of a booster is inappropriate.	Turn off or disconnect the booster if it is in use.	-

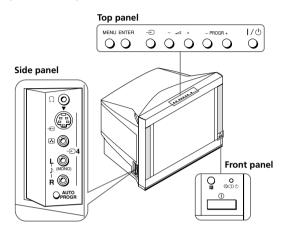
Symptom	Possible cause	Solutions	Page
No color	• The color level setting is too low.	• Display the "A/V CONTROL" menu and select "ADJUST" of "PICTURE MODE", then adjust the "COLOR" level.	32
	• The color system setting is inappropriate.	Display the "CH PRESET" menu and check the color system ("COL SYS") setting (usually set this to "AUTO").	41
	The antenna direction needs adjustment.	Adjust the antenna direction. Contact a Sony dealer for advice.	-
Abnormal color patches	The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV.	• Locate external speakers or other equipment away from the TV. Do not move the TV while the TV is turned on. Press ① (main power) on the TV to turn off the TV for about 15 minutes, then turn it on again.	-
TV cannot receive stereo broadcast signal.	• The stereo reception setting is inappropriate.	Press A/B until "AUTO" appears on the screen.	22
Stereo broadcast sound switches on and off or	The connection is loose or the cable is damaged.	Check the antenna cable and connection on the TV, VCR and on the wall.	4
s distorted. Or	The antenna direction needs adjustment.	Adjust the antenna direction. Contact a Sony dealer for advice.	-
The sound switches between stereo and monaural frequently. • The broadcast signal has a transmission problem.		Press A/B until a better sound is heard.	22
"100?" appears at the top of the screen after approximately 10 seconds and there is no Teletext display.	The channel carries no Teletext broadcast.	-	24
Teletext display is	Connection is loose or the cable is damaged.	Check the antenna cable and connection on the TV, VCR, and at the wall.	4
(snowy picture or double images).	The antenna direction is inappropriate.	Adjust the antenna direction. Contact a Sony dealer for advice.	-
	Signal transmission is	Try using a booster.	-
	too low.	• Use the fine tuning ("FINE") function.	43
Picture slant Good morning!	The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV.	 Keep external speakers or other electrical equipment away from the TV. Display the "SET UP" menu and adjust "PIC ROTATION" until the picture position is optimal. 	38

Troubleshooting (continued)

Symptom	Possible cause	Solutions	Page
Lines moving across the TV screen.	There is interference from external sources, e.g., heavy machineries, nearby broadcast station.	Use the fine tuning ("FINE") function.	43
The (1) indicator on your TV flashes red several times between three-second intervals.	Your TV may need servicing.	Contact your nearest Sony service center.	44
Cannot play shooting games.	Some shooting games which involve pointing a light beam at the TV screen with an electronic gun or rifle cannot be used with your TV. For detail, see the instruction manual supplied with the video game software.	_	_
TV cabinet creaks.	Changes in room temperature sometimes make the TV cabinet expand or contract, causing a noise. This does not indicate a malfunction.	_	-
A small "boom" sound is heard when the TV is turned on.	The TV's demagnetizing function is working. This does not indicate a malfunction.	_	-
Static discharge is felt when touching the TV cabinet.	This is the same static discharge that is felt when touching metal door handles or car doors especially when the air is dry, for example in winter. This does not indicate a malfunction.	_	_

Overview of controls

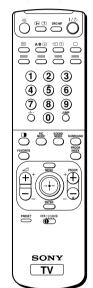
Front, top and side panels

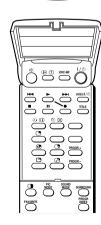


Button	Function	Page
Side panel		
Ω	Headphone jack.	-
AUTO PROGR	Preset channels automatically.	5
Front panel		
①	Turn off completely or turn on the TV.	10
Ф	Standby indicator.	10
(e)	Wake Up indicator.	13
\Box	Stereo/bilingual indicator.	22
Top panel		
I/Φ	Turn off temporarily or turn on the TV.	10
PROGR +/-	Select program number.	10
⊿+/-	Adjust volume.	11
€	Select TV or video input.	11
ENTER	Confirm selected items.	30
MENU	Display the menu.	30

Overview of controls (continued)

Remote control



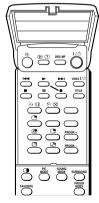


The names/symbols of buttons on the remote are
indicated in different colors to represent the available
functions.

Label color	Button function
White	For general TV operations
Green	For Teletext operations
Yellow	For PIP operations

Button	Function	Page
1/0	Turn off temporarily or turn on the TV.	
PROGR +/-	Select program number.	10
0 – 9, -/	Input numbers.	10
(i+)	Display on-screen information.	11
0%	Mute the sound.	11
0	Display the TV program.	11
Ð	Select TV or video input.	11
⊿ +/-	Adjust volume.	11
JUMP	Jump to previous program number.	11
Timer operations		
①	Set TV to turn on automatically.	13
(Set TV to turn off automatically.	13
SOUND MODE	Select sound mode.	14
PIC MODE	Select picture mode.	14
DRC-MF	Select DRC-MF mode.	15
Favorite Channel	operations	
FAVORITE	Display favorite channels.	16
•	Select desired program number.	16
PIP and Twin pictu	re operations	
•	Display the PIP screen.	17
0	Display TWIN pictures.	17
(Adjust Twin picture size.	18
PROGR +/ PROGR -	Change program in PIP/ Twin picture.	18
•	Select video input for PIP/ Twin picture.	18
2	Swap main and PIP/Twin picture.	18
<u></u>	Freeze PIP screen.	18
•	Adjust position of PIP screen.	18



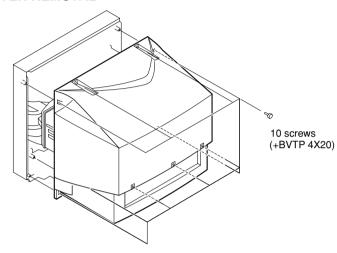


Button	Function	Page
Program Index operations		
PROGR INDEX Display all preset program numbers.		19
PROGR +/-	View next/previous 12 program numbers.	20
(1)	Select desired program number.	20
SURROUND	Select surround mode.	21
Stereo/bilingual o	perations	
A/B	Select stereo/bilingual mode.	22
Teletext operation	ns	
	Display Teletext broadcast.	24
(i)	Display Teletext service contents.	25
(-)	Stop Teletext page from scrolling.	25
?	Reveal concealed information.	25
•	Enlarge the Teletext display.	25
\boxtimes	Show TV screen while waiting for Teletext page.	25
0 - 9	Input Teletext page number.	25
PROGR +/-	Display the next or previous page.	25
(red, green, yellow, blue)	Access a FASTEXT menu.	25
Optional compone	ents operations	
VTR	Set up the remote.	26
VIDEO I / 🖰	Power.	27
TITLE	Display the title menu.	27
	Play.	27
▶	Fast forward/Search forward.	27
I ◀◀	Rewind/Search backward.	27
•	Record.	27
	Stop.	27
Ш	Pause.	27
Menu operations		
MENU	Display the menu.	30
(Select, adjust and confirm selected items.	30
ENTER	Confirm selected items.	30
PRESET	Display "MANUAL PROGRAM" menu.	42

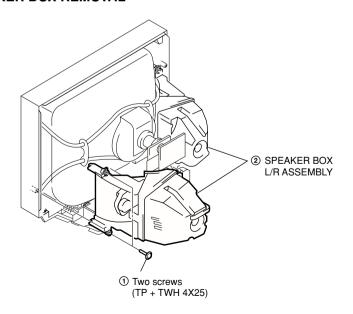
KV-ES38M31/ES38M61/ES38M90/ES38M91

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

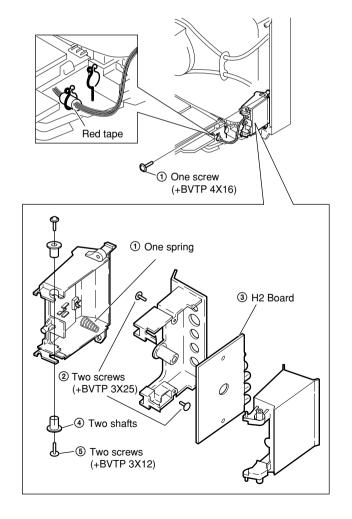


2-2. SPEAKER BOX REMOVAL

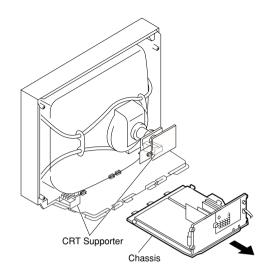


2-3. H2 BOARD REMOVAL

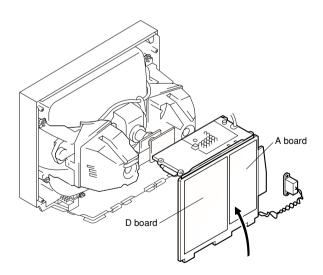
Caution: Please make sure that the red colour taped point is just placed with the purse lock when treating the leads to H2 board. If lead treatment is wrongly arranged, it will affect the door opening and closing malfunction.



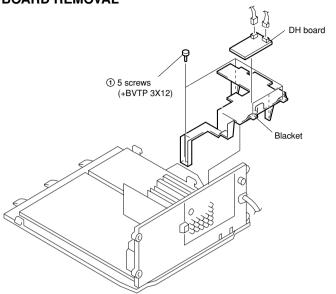
2-4. CHASSIS ASSY REMOVAL



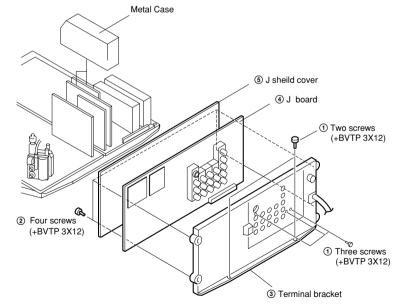
2-5. SERVICE POSITION



2-6. DH BOARD REMOVAL

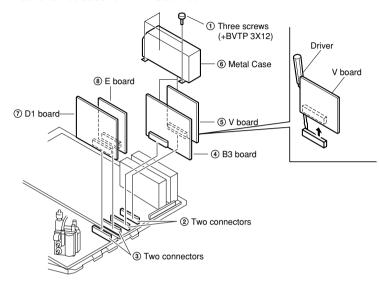


2-7. J BOARD REMOVAL

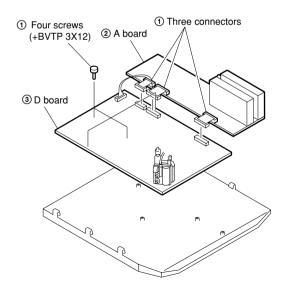


2-8. B3, D1 AND E BOARDS REMOVAL

NOTE: V Board is not used for KV-ES38M90.

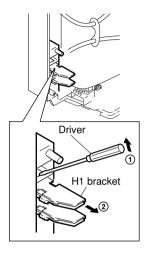


2-9. A AND D BOARDS REMOVAL



2-10. H1 BOARD REMOVAL

NOTE: Push the hook down using the tip of a screwdriver and at the same time pull the H1 bracket.

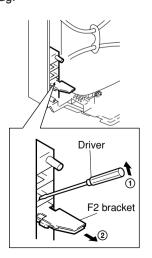


2-11. F2 BOARD REMOVAL

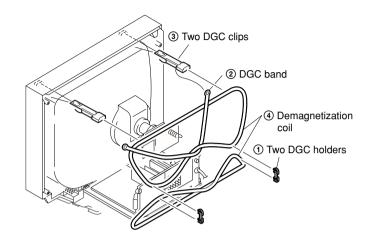
NOTE: To remove F2 board, firstly remove the H1 board. Then, push the hook down using the tip of a screwdriver and at the same time pull the F2

Caution: When removing the F2 board, please turn off the main AC supply and

disconnect the AC plug.

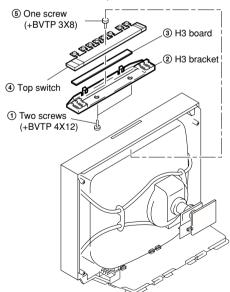


2-12. DEMAGNETIZATION COIL REMOVAL



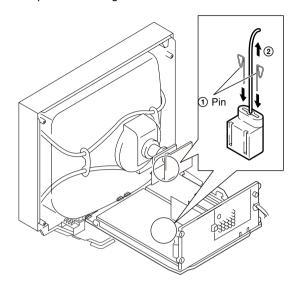
2-13. TOP SWITCH REMOVAL (H3 BOARD REMOVAL)

NOTE: To remove H3 board, the CRT has to be removed first.



2-14. G2 LEAD REMOVAL

NOTE: Insert pin to both edge holes on socket and release the lock.



KV-ES38M31/ES38M61/ES38M90/ES38M91

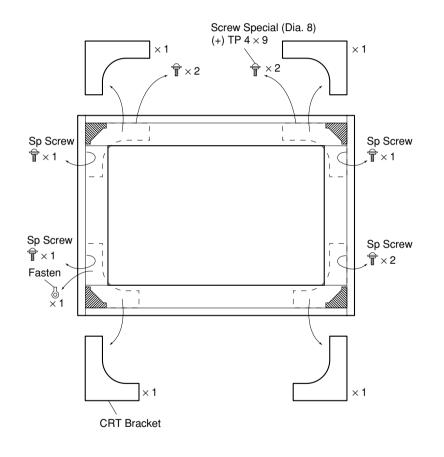
2-15. PICTURE TUBE REMOVAL

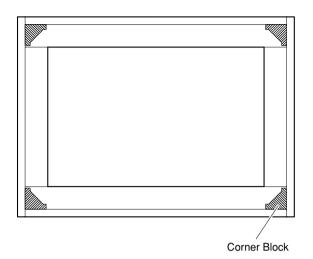
i) Prior to picture tube removal, please remove the front cover first. Caution: Aluminium frame is easily scratched if extra caution is not taken when handling it.

(5) Chassis assembly 7 C board 12 Two DGC holders ® Neck assembly Deflection yoke 9 Two springs ② Speaker box(L) assembly 4 Two claws 1) Two screws (TP+TWH 4X25) 1 Two hooks ⑥ Four screws (+BVTP 4X20) (15) Demagnetization coil (1) DGC band 1 Two screws (TP+TWH 4X25) 13 Two DGC clips 9 ③ Anode cap 16 Four screws 1 Picture tube ② Speaker box(R) assembly Cushion

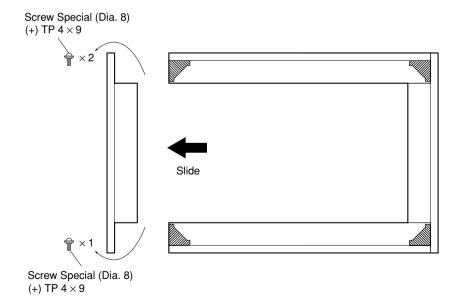
2-16. FRAME SUB-ASSY DISASSEMBLY

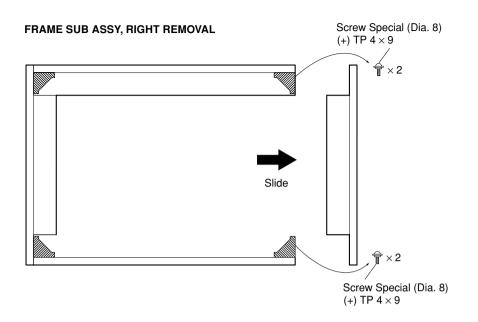


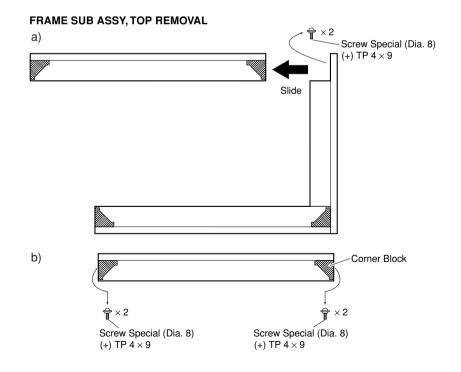




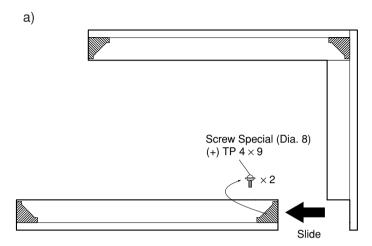
FRAME SUB ASSY, LEFT REMOVAL

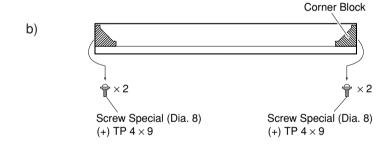






FRAME SUB ASSY, BOTTOM REMOVAL





NOTE: When replacing the Frame Sub-Assy Top and Bottom, fix the original corner block to the new part.

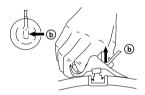
• REMOVAL OF ANODE-CAP

NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

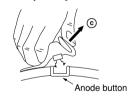
REMOVING PROCEDURES



1) Turn up one side of the rubber cap in the direction indicated by the arrow a.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).

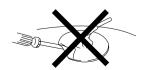


3 When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
- 2 Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.
- 3 Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.

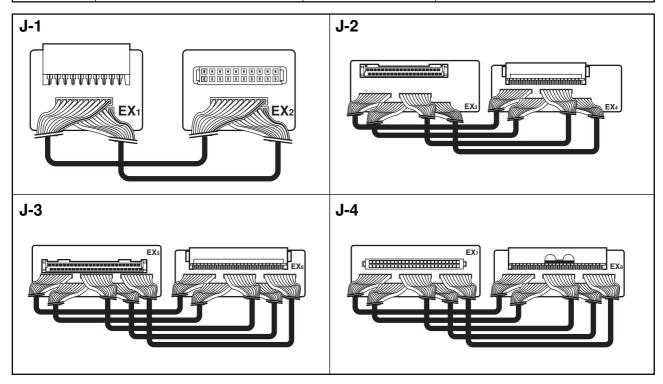




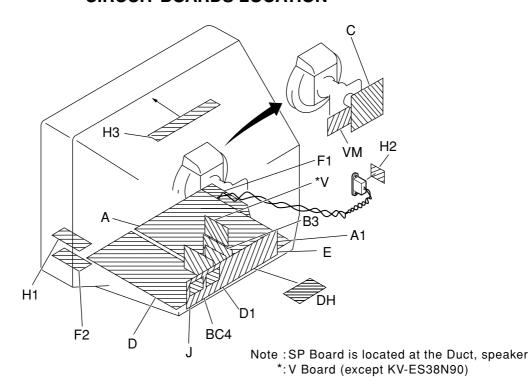
SECTION 3 SERVICE JIG

3-1. JIGS REQUIRED FOR SERVICING

REF NO.	DESCRIPTION	PART NO.	REMARK
J-1	TOOL (20P), SERVICE	3-702-763-01	For A to V board extension
J-2	TOOL (40P), SERVICE	3-702-764-01	For A to E board extension
J-3	TOOL (50P-A), SERVICE	3-702-765-01	For A to B3 board extension
J-4	TOOL (50P-J), SERVICE	3-702-766-01	For A to J board extension For D to D1 board extension



SECTION 4 CIRCUIT BOARDS LOCATION



SECTION 5 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control normal BRIGHTNESS control normal

Perform the adjustments in the following order:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color-bar/Pattern Generator
- 2. Degausser
- 3. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

5-1. BEAM LANDING

1. Input a white signal with the pattern generator.

Contrast Brightness normal

- 2. Position neck assy as shown in Fig 5-1.
- 3. Set the pattern generator raster signal to a green raster.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.

 (See Figures 5-1 through 5-3.)
- 5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 5-2.)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
- If the beam does not land correctly in all the corners, use a magnet to adjust it.
 (See Figure 5-4.)

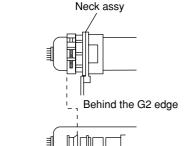


Fig. 5-1

G3

G2

Ğ1

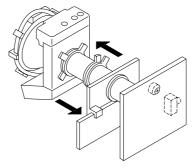


Fig. 5-2

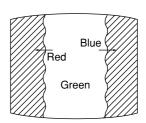


Fig. 5-3

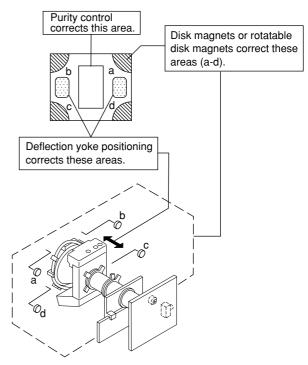


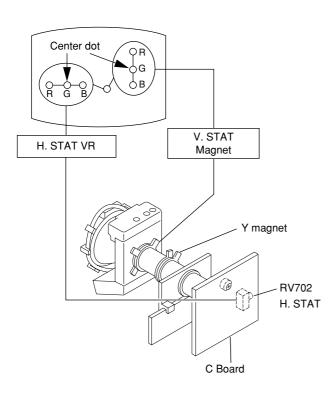
Fig. 5-4

5-2. CONVERGENCE ADJUSTMENT

Preparation:

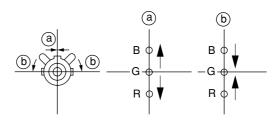
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Set the Picture Mode to "STANDARD".
- Cross hatch / Dot pattern.

(1) Horizontal and Vertical Static Convergence

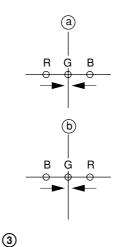


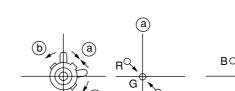
- (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
- 3. Adjust Horizontal Trapezoid with "DAC 04 HTR" in Service Mode to make H-Trapezoid distortion best.
- 4. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below. (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)

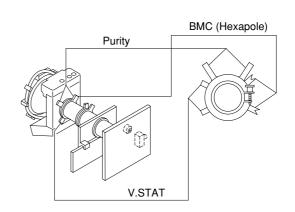
① V. STAT



② H. STAT VR

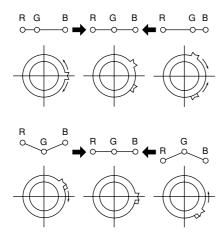




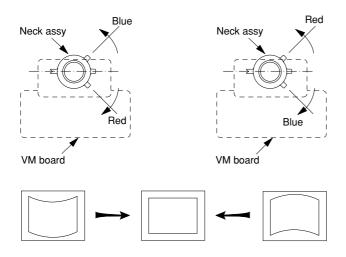


4 BMC (Hexapole) Magnet.

If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



- **5** Y separation axis correction magnet adjustment.
- 1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .
- 2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



Note

- 1. The Red and Blue magnets should be equally far from the horizontal center line.
- 2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

(2) Dynamic Convergence Adjustment

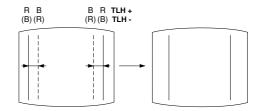
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
- Set the PICTURE and BRIGHTNESS to normal.

1. Adjust TLH. (TLH correction piece)

- ① Receive the dot/hatch pattern signal and adjust picture quality by the menu.
- ② Correct horizontal mis-convergence of red and blue of both sides on the X axis.

When red is outside insert BMC magnet to right side (THL+) views from DY neck. And when blue is outside, insert it to left side (THL-) and take both sides.

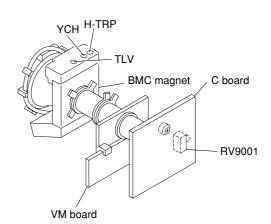


2. Adjust V-TILT-TLV.

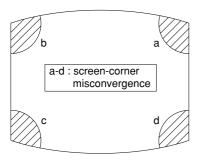
Correct the vertical mis-convergence of red and blue of vertically sides on the Y axis.

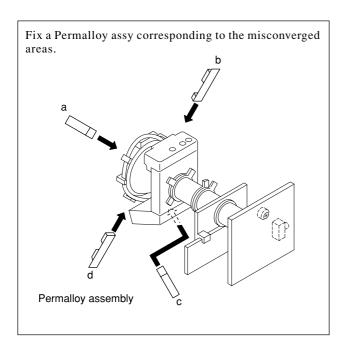
3. Adjust YCH.

Adjust horizontal mis-convergence of red and blue of vertically sides on the Y axis. Mentioned above steps 2 to 4 are adjusting respectively perform minuteness tracking.



(3) Screen-corner Convergence



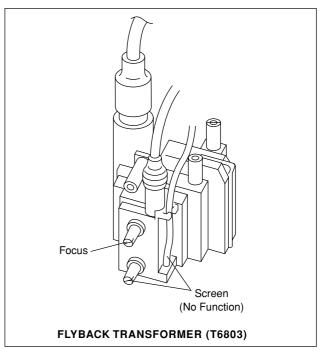


5-3. FOCUS ADJUSTMENT

Note

Focus adjustment should be completed before W/B adjustment.

- (1) Receive digital monoscope pattern.
- (2) Set "A/V CONTROL" to "STANDARD".
- (3) Adjust FOCUS VR so that the center of the screen becomes justfocus.
- (4) Change the receiving signal to white pattern and blue back.
- (5) Confirm MAGENTA RING should not be over the limit sample. In case MAGENTA RING is over the limit sample, adjust FOCUS VR to take tracking of MAGENTA RING and FOCUS.



5-4. NECK ASSY TWIST ADJUSTMENT

- (1) Receive dot/hatch pattern.
- (2) Turn FOCUS VR fully counter-clockwise.
- (3) Confirm the dot shape at the screen center. (Fig. 5-4)
- (4) Resume FOCUS VR.

Note

In case of turning NECK ASSY, loosen the screw 3 turns. Do not move the position.

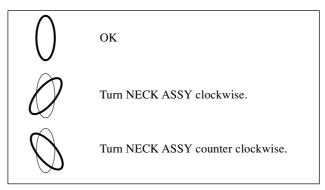
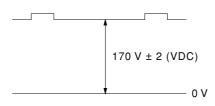


Fig. 5-4

5-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G and B of the C board cathode to the oscilloscope.
- 4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
- 5) Whilst watching the picture, adjust the screen VR (RV9002) located on the C board to the point just before the flyback return lines disappear (to the point before cut-off)



2. WHITE BALANCE ADJUSTMENT

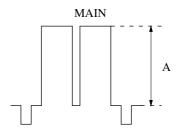
- 1) Set to Service Mode (Refer Section 6-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input white raster signal.
- Set the following condition.
 PICTURE minimum, BRIGHTNESS 50%
- 4) Select GCT (WHB 7) and BCT (WHB 8) with 1 and 4, and adjust the level with 3 and 6 for the best white balance.
- 5) Set the PICTURE to maximum.
- 6) Select GDR (WHB 4) and BDR (WHB 5) with 1 and 4, and adjust the level with 3 and 6 for the best white balance.
- 7) Write into the memory by pressing MUTING then 0.

3. SUB PICTURE BRIGHTNESS ADJUSTMENT

- 1) Tune RF PAL white signal at program No. 1 and No. 2.
- 2) Select "TWIN PICTURE" mode.
- 3) Receive different RF PAL white signals in MAIN and Sub picture.
- 4) Adjust RV3300 on A PWB, so that the output from the 17 pin and 20 pin of the CN1180 becomes within the spec.

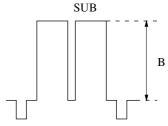
CVBS 1

17 pin



CVBS 2

20 pin



Spec: $|A - B| \le \pm 20 \text{mV}$

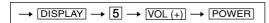
SECTION 6 CIRCUIT ADJUSTMENTS

6-1. ADJUSTMENTS WITH COMMANDER

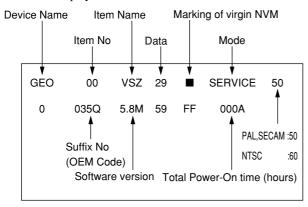
Service adjustments are made with the RM-916 that comes with this unit.

a. ENTERING SERVICE MODE

This operation sequence puts the unit into service mode.



The screen display is:



b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander), then press POWER button again, hereupon it becomes TV mode.

METHOD OF WRITE INTO MEMORY

- 1) Set to Service Mode.
- Press 1 (UP) and 4 (DOWN), select an item of 2) adjustment.
- Press MUTING button and it will indicate WRITE on the 3) screen
- 4) Press o button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

- After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- Turn the power switch ON and set to Service Mode.
- Call the adjusted items again to confirm adjustments were made.

The screen display is:

1,4	Select the adjustment item.
3, 6	Raise/lower the data value.
MUTING	Writes.
0	Executes the writing.
7,0	All the data becomes the values in memory.

8,0 All user control goes to the standard state.

5,0 Service data initialization (Be sure not to use usually.)

DISPLAY, 0 Write 50Hz adjustment data to 60Hz, or vice versa.

2, 0 Write 50Hz adjustment data to 60Hz, or vice

Cursor +/-Copy and write all data. example:

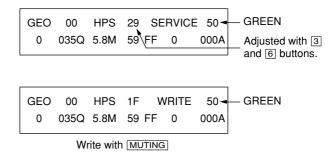
GEO 00 **VSZ** 1 HCT DAC 00

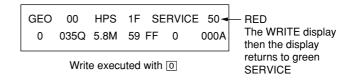
6-2. ADJUSTMENT METHOD

Item Number 00 of device GEO

This explanation uses V-size as an example.

- Select "GEO 00 VSZ" with the **1** and **4** buttons.
- Raise/lower the data with the **3** and **6** buttons.
- Select the optimum state. (The standard is 1F for PAL reception.)
- 4. Write with the MUTING button. (The display changes to WRITE.)
- 5. Execute the writing with the **0** button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)





Use the same method for all Items. Use 1 and 4 to select the adjustment item, use 3 and 6 to adjust, write with MUTING, then execute the write with **0**

Note: 1. In WRITE, the data for all items are written into memory together.

- 2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.
- 3. Additional function to skip category (device) to category (device).

example:

The buttons for the function above should be \uparrow and \downarrow .

TVG	Functi	onality	Initial	Range	Function	Table and Note				PA	L 50							NT	SC 60				Device Name
Categor- y	No.	Name					DRC 1250	DRC 1250V	PinP	PinPV	INDEX	TWIN	DRC 100	DRC 100V	DRC 1250	60 VC	PinP	PinPV	INDEX	TWIN	DRC 100	DRC 100V	
GEO	00	VSZ	21	3F	V SIZE	FF/4P*50/60*VC/NC, TW/IX*50/60	1B	21	1B	21	20	20	1C	20	1D	21	1D	21	20	23	1E	23	CXA2100AQ
	01	VPS	27	3F	V POSITION	FF/4P*50/60*VC/NC, TW/IX*50/60	25	24	25	24	23	25	23	23	27	27	27	27	25	29	25	25	
	02	VLN	5	0F	V LINESRITY	FF/R4/PR*50/60*VC/NC	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	
	03	SCO	0A	0F	S CORRECTION	FF/R4/PR*50/60*VC/NC	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	
	04	HSZ	1E	3F	H SIZE	FF/4P*50/60*VC/NC, TW/IX*50/60	26	27	26	27	1E	1E	27	27	24	24	24	24	23	1F	25	25	
	05	HPS	2F	3F	H POSITION	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	38	36	38	35	3B	3C	38	36	30	2F	30	30	31	36	31	2F	
	06	DVH	5	0F	H POSITION OFFSET FOR DVD	50/60Hz (DVD)	06	06	06	06			06		07	07	07	07			07	07	
	07	PAP	28	3F	PIN AMP	FF/R4/PR*50/60*VC/NC	21	1F	21	1C	21	21	21	21	1F	20	1F	1F	1F	1F	23	1E	
	08	UPN	25	3F	UPPER CONER PIN	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	1E	1D	1E	1D	1D	1E	1D	1D	1C	23	1C	1E	1C	1C	1B	14	
	09	LPN	23	3F	LOWER CONER PIN	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	1C	16	1C	16	1B	1C	1D	1D	1B	1A	1B	1A	1B	1B	1E	19	
	0A	TRZ	0C	0F	TRAPEZIUM	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	08	08	08	07	07	09	05	05	08	08	08	08	07	09	04	05	
	0B	AGL	0A	0F	AFC ANGLE	FF/R4/PR*50/60*VC/NC	07	07	06	07	06	06	06	06	07	07	06	07	06	06	07	06	
	0C	BOW	6	0F	AFC BOW	FF/R4/PR*50/60*VC/NC	08	07	07	06	07	07	07	07	07	07	08	07	08	08	08	08	
	0D	LBL	12	3F	LEFT H BLANKING	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	11	11	11	11	11	11	11	11	1C	1C	1C	1C	1C	1C	1C	1C	
	0E	RBL	2C	3F	RIGHT H BLANKING	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	2C	2C	2C	2C	2C	2C	2C	2C	23	23	23	23	23	23	23	23	
	0F	MPN	0	3	MIDDLE PIN DISTORTION COMPENSATION	50/60*VC/NC	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	10	UVL	0	0F	UPPER LINEARITY	50/60Hz	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	11	LVL	0	0F	LOWER LINEARITY	50/60Hz	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	12	НСР	0	3	HORIZONTAL HIGH VOLTAGE COMPENSATION	50/60*VC/NC	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	13	VCP	1	3	VERTICAL HIGH VOLTAGE COMPENSATION	50/60*VC/NC	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	14	VAS	2F	3F	V ASPECT	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	2F	2E	2F	2E	2F	30	2F	2E	2F	31	2F	31	2F	2E	2F	30	
	15	vsc	1F	3F	V SCROLL	FF/R4/PR*50/60*VC/NC, TW/IX*50/60	22	22	22	22	22	24	22	22	22	22	22	22	22	23	22	22	
	16	USC	0	1	UNDER-SCAN MODE ON/OFF	50/60*VC/NC																	
	17	VBW	0	3	V BLANKING WIDTH CONTROL	FF/R4/PR*50/60*VC/NC	00	03	00	03	00	00	00	03	00	03	00	03	00	00	00	03	
	18	AT1	2	3	AKB REFERENCE TIMING	FF/R4/PR*50/60*VC/NC	02	03	02	03	02	02	02	03	02	03	02	03	02	02	02	03	
	19	СРҮ	0	1	COPY THE GEO DATA TO ALL 50/60HZ NVM AREA																		

TVG	Functi	ionality	Initial	Range	Function	Table and Note				PA	_ 50					Eco	Mode					NTS	SC 60				Device Name
Category	No.	Name					DRC 1250	DRC 1250V	PinP	PinPV	INDEX	TWIN	DRC 100		Eco On NC	Eco Off NC	Eco On VC	Eco Off VC	DRC 1250	60VC	PinP	PinPV	INDEX	TWIN	DRC 100	DRC 100V	
DAC	00	HCT	33	FF	H CENTER	50/60Hz	30	30	30	30	30	30	30	30					6B	6B	6B	6B	6B	6B	6B	6B	MB88141
	01	HLN	27	3F	H LINEARITY	FF/4P*50/60	30	30	30	30	30	30	30	30					33	33	33	33	33	33	33	33	
	02	MDP	26	3F	MIDDLE PIN	FF/4P*50/60	1A	1A	1A	1A	1A	1A	1A	1A					1A	1A	1A	1A	1A	1A	1A	1A	
	03	CCP	37	3F	LOWER CONER PIN	FF/4P*50/60	1F	1F	1F	1F	1F	1F	1F	1F					1F	1F	1F	1F	1F	1F	1F	1F	
	04	HTR	26	3F	HORIZONTAL TRAPEZIUM	FF/4P*50/60	1F	1F	1F	1F	1F	1F	1F	1F					1F	1F	1F	1F	1F	1F	1F	1F	
	05	DF	01	1	DF ON/OFF SWITCH	FF/4P*50/60	01	01	01	01	01	01	01	01					01	01	01	01	01	01	01	01	
	06	DPH	1F	3F	DF PHASE	FF/4P*50/60	27	27	27	27	27	27	27	27					27	27	27	27	27	27	27	27	
	07	QPH	19	3F	QP PHASE	FF/4P*50/60	15	15	15	15	15	15	15	15					15	15	15	15	15	15	15	15	
	08	QAC	23	3F	QP AMPLITUDE	FF/4P*50/60	23	23	23	23	23	23	23	23					23	23	23	23	23	23	23	23	
	09	QDC	20	3F	QP DC LEVEL	FF/4P*50/60	20	20	20	20	20	20	20	20					20	20	20	20	20	20	20	20	
	0A	QDV	1F	3F	QP V MODULATION	FF/4P*50/60	1D	1D	1D	1D	1D	1D	22	22					1E	1E	1E	1E	1E	1E	24	24	
	0B	QAV	1A	3F	QP AMPLITUDE MODULATION	FF/4P*50/60	3F	3F	3F	3F	3F	3F	3F	3F					3F	3F	3F	3F	3F	3F	3F	3F	
	0C	ABC	0	FF		ECO on/off*VC/NC									00	00	7E	7E									
	0D	CPY	0	1	COPY THE GEO DATA TO ALL 50/60HZ NVM AREA																						

TVG	Functi	onality	Initial	Range	Function	Table and Note	Common	Device
Category	No.	Name						Name
WHB	00	СВО	7	0F	DC OFFSET CANCELLER FOR CB1		0A	CXA2100AQ
	01	CRO	7	0F	DC OFFSET CANCELLER FOR CR1		0A	
	02	SBR	18	3F	SUB BRIGHTNESS CONTROL		22	
	03	RDR	29	3F	R DRIVE		29	
	04	GDR	25	3F	G DRIVE		25	
	05	BDR	26	3F	B DRIVE		20	
	06	RCT	29	3F	R CUTOFF		24	
	07	GCT	12	3F	G CUTOFF		07	
	08	ВСТ	31	3F	B CUTOFF		2F	
	09	SBO	29	3F	SUB BRIGHTNESS OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1C	
	0A	RDO	1F	3F	R DRIVE OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1F	
	0B	GDO	1A	3F	G DRIVE OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1B	
	0C	BDO	1A	3F	B DRIVE OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1B	
	0D	RCO	1F	3F	R CUTOFF OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1F	
	0E	GCO	1E	3F	G CUTOFF OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1F	
	0F	всо	15	3F	B CUTOFF OFFSET	EXCEPT PICTURE MODE, DYNAMIC	1A	

TVG	Functi	ionality	Initial	Range	Function	Table and Note	Common				ECO I	MODE			50			60			PICTURE	MODE		Device Name
Category	No.	Name						Twin	Index	Eco On NC	Eco Off NC	Eco On VC	Eco Off VC	TV	Vid- eo	DVD	TV	Vid- eo	DVD	Dynamic	Standard Drama	Hi-Fin /Soft	Personal	
SAJ	00	PIC	3F	3F	PICTURE CONTROL	EXCEPT PICTURE MODE, PERSONAL														3F	32	28		CXA2100AQ
	01	BRT	1F	3F	BRIGHTNESS CONTROL	EXCEPT PICTURE MODE, PERSONAL														23	1F	1B		
	02	COL	27	3F	COLOR CONTROL	EXCEPT PICTURE MODE, PERSONAL														32	23	23		
	03	HUE	1F	3F	HUE CONTROL	EXCEPT PICTURE MODE, PERSONAL														1F	1F	1F		
	04	SHP	24	3F	SHARPNESS CONTROL	EXCEPT PICTURE MODE, PERSONAL														22	1F	1D		
	05	VML	3	3	VM LEVEL	PICTURE MODE														03	03	01	03	
	06	DYC	1	1	DYNAMIC COLOR ON/OFF	PICTURE MODE														01	01	00	01	
	07	СТМ	0		COLOR TEMPERATURE FOR DYNAMIC COLOR	PICTURE MODE														00	00	00	00	
	08	CAX	2	3	COLOR MATRIX SPECIFICATION	50/60Hz								02	02	02	00	00	00					
	09	GMA	3	3	GAMMA CORRECTION	PICTURE MODE														02	02	03	02	
	0A	DCT	1	3	DC TRANSMISSION CONTROL	PICTURE MODE														01	01	00	01	
	0B	DPL	1	3	AUTO PEDESTAL LEVEL CONTROL	PICTURE MODE														02	01	00	01	
	0C	ABM	0	3	ABL MODE CONTROL	PICTURE MODE														01	00	00	00	
	0D	ABT	0	3	ABL CURRENT DETECTION VTH CONTROL	Eco on/off*VC/NC				02	00	02	00											
	0E	CLO	9	0F	COLOR OFFSET	50/60*TV/Video								09	08		09	09						
	0F	CLW	3	7	COLOR STEP WIDTH TO THE CHANGE OF S/N		03																	
	10	HUO	9	0F	HUE OFFSET	50/60*TV/Video								08	08		09	09						
	11	SHO	7	1F	SHARPNESS OFFSET	50/60*TV/Video/DVD								14	17	0F	0C	0F	0F					
	12	SHW	1	7	SHARPNESS STEP WIDTH TO THE CHANGE OF S/N		01																	
	13	PIO	5	7	PICTURE OFFSET FOR TWIN/INDEX	Twin/Index		07	07															
	14	BRO	7	0F	BRIGHTNESS OFFSET	Eco on/off*VC/NC				07	07	07	07											

TVG	Funct	tionality	Initial	Range	Function	Table and Note	Common		50			60			PICTURI	E MODE		Device Name
Category	No.	Name						TV	Video	DVD	TV	Video	DVD	Dynamic	Standar /Drama	Hi-Fine Soft	Personal]
JGL	00	PON	1	1	RGB AND AKB REFERENCE PULSE OUTPUT ON/OFF		01											CXA2100AQ
	01	RGB	7	7	RGB OUTPUT SELECTION		07											1
	02	AGG	0	3	AGING MODE SELECTION		00											
	03	DPS	0	1	Y/C DELAY LINE PASS MODE SWITCH		00											1
	04	BBT	3	3	RGB BOTTOM LIMITTER CONTROL		03											1
	05	LML	0	3	RGB AMPLITUDE LIMITTER CONTROL		00											1
	06	PAB	0F	0F	DC LEVEL FOR PEAK ABL		0F											1
	07	sco	0C	0F	SUB PICTURE CONTROL		08											1
	08	LV2	7	0F	RGB LEVEL FOR RGB2		07											1
	09	SF0	1	1	SHARPNESS CIRCUIT F0	50/60*TV/Video/DVD		01	01	01	01	01	01					1
	0A	PRO	0	3	PRE/OVER-SHOOT RATIO CONTROL	50/60*TV/Video/DVD		00	03	03	03	03	03					1
	0B	LTI	2	3	LUMINANCE TRANSIENT IMPROVEMENT	PICTURE MODE								02	02	00	02	1
	0C	СТІ	1	3	CHROMINANCE TRANSIENT IMPROVEMENT	PICTURE MODE								01	01	00	01	

TVG	Funct	ionality	Initial	Range	Function	Table and Note	Common						50			60		Device Name
Category	No.	Name						2D Comb	3D Comb	S-Input	Others	TV	Video	DVD	TV	Video	DVD	•
YCT	00	TNT	1F	3F	TINT ADJUSMENT FOR NTSC	TV/Video						24	1F		24	1F		CXA2123Q
	01	PNG	0	1	PAL/NTSC GATE WIDTH		01											
	02	PNI	0	1	PAL/NTSC SENSITIVITY SW		00											
	03	SCL	7	0F	SUB COLOR CONTROL	50/60*TV/Video						05	07		04	07		
	04	SCT	8	0F	SUB CONTRAST CONTROL	50/60*TV/Video						08	07		07	07		
	05	SF0	2	3	SHARPNESS CENTER FREQUENCY CHANGING		02											
	06	SEQ	3	3	SHARPNESS EQUALIZER CHARACTERISTIC		03											
	07	SHG	5	0F	SHARPNESS GAIN CONTROL	50/60*TV/Video/DVD						05	05	07	06	06	07	
	08	YOL	1F	3F	Y-OUTPUT LEVEL CONTROL		1F											
	09	BSP	0	3	BLACK STRETCH START POINT CHANGING		00											
	0A	COL	1F	3F	CB/CR OUTPUT LEVEL CONTROL		1A											
	0B	DCR	0	3	DC RESTORATION RATIO ADJUSTMENT		00											
	0C	BF0	1	3	BPF/TQF F0 ADJUSTMENT		01											
	0D	BFQ	2	3	BPF/TQF Q ADJUSTMENT		02											
	0E	FSW	1	1	BPF/TQF SWITCH		01											
	0F	SDT	1	1	SECAM DOUBLE TRAP SWITCH		01											
	10	LPF	1	1	Y/CB/CR LPF SWITCH		01											
	11	YDL	6	0F	Y-DL TIME ADJUSMENT	2D Comb/3D comb/ S-input/othes		06	05	03	05							
	12	CMT	0	1	CB/CR OUTPUT MUTE SWITCH		00											
	13	BO1	7	0F	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)		07											
	14	RO1	7	0F	CB OFFSET1 ADJUSTMENT		07											
	15	CDF	0	7	V COUNT DOWN FREQUENCY SWITCH	forced 50Hz for no signal	00											
	16	CDM	0	3	V COUNT DOWN JUDGE SWITCH		00											
	17	AFC	0	3	AFC SENSITIVITY SWITCH	TV/Video/DVD							00	00		00	00	
	18	MVM	0	1	MACROVISION + AFC MASK		00											
	19	SRY	7	0F	SECAM R-Y BLACK ADJUSTMENT		07											
	1A	SBY	1	0F	SECAM B-Y BLACK ADJUSTMENT		01											
	1B	BEL	2	3	SECAM BELL/HPF SWITCHING		02											
	1C	BLF	0	1	BELL F0 ADJUSTMENT		00											
	1D	SVI	0	1	SECAM V-ID SWITCH		00											
	1E	SGP	0	3	SECAM GATE POSITION ADJUSTMENT		00											
	1F	SID	1	1	SECAM SENSITIVITY SWITCH	except SECAM	01											
	20	SIH	0	1	SECAM INHIBITION SWITCH		00											
	21	STP	0	1	Y BLACK LEVEL SETUP FOR PAL PLUS		00											
	22	HVC	2	3	H-VCO TEMPERATURE CHARACTER CANCELLING		02											
	23	3NR	1	1	3D NR OPERATION ON/OFF		01											
	24	BW6	1	1	3D NR FOR 60HZ NON-BUST SIGNAL ON/OFF		01											
	25	WSH	0	3	SHARPNESS GAIN STEP FOR NOISE REDUCTION		00											
	26	wco	0	3	DC RESTORATION RATIO ADJUSTMENT		00											

TVG	Functi	onality	Initial	Range	Function	Table and Note	Common		COLOR	ODE			50		60		Device
Category	No.	Name						S-Input	SECAM	NTSC	PAL	TV	Video	TV	Video	DVD	Name
SYC	00	TNT	1F	3F	TINT ADJUSMENT FOR NTSC	TV/Video						21	20	21	20		CXA2123Q
	01	PNG	0	1	PAL/NTSC GATE WIDTH		01										
	02	PNI	0	1	PAL/NTSC SENSITIVITY SW		00										
	03	SCL	7	0F	SUB COLOR CONTROL	50/60*TV/Video						06	07	06	07		
	04	SCT	7	0F	SUB CONTRAST CONTROL	50/60*TV/Video						08	08	07	07		
	05	SF0	2	3	SHARPNESS CENTER FREQUENCY CHANGING		02										
	06	SEQ	3	3	SHARPNESS EQUALIZER CHARACTERISTIC		03										
	07	SHG	7	0F	SHARPNESS GAIN CONTROL		07										
	08	YOL	1F	3F	Y-OUTPUT LEVEL CONTROL		1F										
	09	BSP	0	3	BLACK STRETCH START POINT CHANGING		00										
	0A	COL	1F	3F	CB/CR OUTPUT LEVEL CONTROL		3C										
	0B	DCR	0	3	DC RESTORATION RATIO ADJUSTMENT		00										
	0C	BF0	1	3	BPF/TQF F0 ADJUSTMENT		01										
	0D	BFQ	2	3	BPF/TQF Q ADJUSTMENT		02										
	0E	FSW	1	1	BPF/TQF SWITCH		01										
	0F	SDT	1	1	SECAM DOUBLE TRAP SWITCH		01										
	10	LPF	1	1	Y/CB/CR LPF SWITCH		01										
	11	YDL	3	0F	Y-DL TIME ADJUSMENT	PAL/NTSC/SECAM/S-Input		05	03	02	03						
	12	NCM	1	1	1-H ADDITION SWITCH		01										
	13	СМТ	0	1	CB/CR OUTPUT MUTE SWITCH		00										
	14	BO1	7	0F	CB OFFSET1 ADJUSTMENT (MAIN ROUTE)		07										
	15	RO1	7	0F	CB OFFSET1 ADJUSTMENT		07										
	16	CDF	0	7	V COUNT DOWN FREQUENCY SWITCH		00										
	17	CDM	0	3	V COUNT DOWN JUDGE SWITCH		00										
	18	AFC	0	3	AFC SENSITIVITY SWITCH	(TV)/Video/DVD							00		00	00	
	19	MVM	0	1	MACROVISION + AFC MASK		00										
	1A	SRY	7	0F	SECAM R-Y BLACK ADJUSTMENT		07										
	1B	SBY	1	0F	SECAM B-Y BLACK ADJUSTMENT		01										
	1C	BEL	2	3	SECAM BELL/HPF SWITCHING		02										
	1D	BLF	0	1	BELL F0 ADJUSTMENT		00										
	1E	SVI	0	1	SECAM V-ID SWITCH		00										
	1F	SGP	0	3	SECAM GATE POSITION ADJUSTMENT		00										
	20	SID	1	1	SECAM SENSITIVITY SWITCH	except SECAM	01										
	21	SIH	0	1	SECAM INHIBITION SWITCH		00										
	22	STP	0	1	Y BLACK LEVEL SETUP FOR PAL PLUS		00										
	23	нус	2	3	H-VCO TEMPERATURE CHARACTER CANCELLING		02										

TVG	Funct	ionality	Initial	Range	Function	Common	Device
Category	No.	Name					Name
MSP	00	WST	15	FF	W/G STEREO THRESHOLD	15	MSP3415D
	01	WBT	EA	FF	W/G BILINGAUAL THRESHOLD	EA	
	02	WLL	5	FF	W/G MONOAURAL THRESHOLD	05	
	03	WAC	1	0F	W/G AGREEMENT COUNT	01	
	04	WDL	30	FF	W/G SEARCH DELAY	30	
	05	NDL	20	FF	NICAM SEARCH DELAY	20	
	06	SDL	10	FF	STEREO STATUS READ DELAY	10	
	07	AGC	1	1	AGC SWITCH AUTO/CONSTANT	01	
	08	REL	28	3F	AGC GAIN AT CONSTANT MODE	28	
	09	CRM	0	1	CARRIER MUTING ON/OFF	00	
	0A	ACO	1	1	AUDIO CLOCK ON/OFF	01	
	0B	FP	1B	7F	FM PRESCALE FOR NON-M SYSTEM	1B	
	0C	FPM	32	7F	FM PRESCALE FOR M SYSTEM	32	
	0D	FH	2D	7F	FM PRESCALE FOR HDEV	2D	
	0E	FHM	65	7F	FM PRESCALE FOR HDEV AND M	65	
	0F	WGP	2A	7F	W/G PRESCALE	2A	
	10	NIP	6D	7F	NICAM PRESCALE	6D	
	11	ERR	50	FF	AUTO FM SWITCH THRESHOLD	50	
	12	VOL	6D	FF	LOUDSPEAKER GAIN 0700H TO 07FFH	6D	

TVG	Functi	onality	Initial	Range	Function	Table and Note			Initial Value	(Detailed)		Device Name
Category	No.	Name					Common	Dynamic	Standard/Drama	Hi-Fine/Soft	Personel	
AP	00	BAS	0A	0F	BASE CONTROL	EXCEPT PESONAL		0B	08	07		TDA7315
	01	TRE	0A	0F	TREBLE CONTROL	EXCEPT PESONAL		0B	09	07		
	02	LDN	1	1	LOUDNESS CONTROL		01					

TVG	Functi	ionality	Initial	Range	Function	Table and Note	Common					PICTURE	MODE		Device Name
Category	No.	Name					1	Twin	TV	Video	Dynamic	Standard/Drama	Hi-Fine/Soft	Personal	1
LTI	00	LDH	1	1	HISTOGRAM SEGMENT SELECTION		01								
	01	CFS	1	1	COUNTER FILTER SELECTION		01								1
	02	WLB	0	1	LETTERBOX WINDOW SWITCH		00								1
	03	VDC	1	1	VIDEO DEPENDENT CORING	PICTURE MODE					01	01	01	01	
	04	DEM	0	1	DEMONSTRATION MODE		00								
	05	CDP	4	07	LUMINANCE DELAY		04								
	06	OSP	0	1	OVERRULE SMART PEAKING		00								
	07	WPO	0	1	WHITE POINT STRETCH OFF		00								
	08	DSK	0	1	SKIN TONE SWITCH	PICTURE MODE					00	00	00	00	
	09	ASK	0	1	SKIN TONE ANGLE SELECTION		00								
	0A	WSK	0	1	SKIN TONE WIDTH SELECTION		00								
	0B	SSK	0	1	SKIN TONE SIZE SELECTION		00								
	0C	DGR	1	1	GREEN ENHANCEMENT SWITCH	PICTURE MODE AND MULTIPLE MODE		00			01	01	00	01	
	0C	DGR	1	1	GREEN ENHANCEMENT SWITCH	PICTURE MODE AND MULTIPLE MODE		00			00	00	00	00	(KV-ES38M31 ONLY
	0D	DGT	7	7	THRESHOLD OF GREEN ENHANCEMENT SWITCH		07								
	0E	GGR	0	1	GREEN ENHANCEMENT GAIN		00								_
	0F	WGR	0	1	GREEN ENHANCEMENT WITDH		00								1
	10	SGR	0	1	GREEN ENHANCEMENT SIZE		00								1
	11	DBL	0	1	BLUE STRETCH SWITCH		00								_
	12	GBL	0	1	BLUE STRETCH GAIN SELECTION		00								1
	13	SBL	0	1	BLUE STRETCH SIZE SELECTION		00								
	14	CDS	1	1	COLOR DEPENDENT SHARPNESS	PICTURE MODE					01	01	00	01	
	15	CST	7	7	THRESHOLD OF COLOR DEPENDENT SHARPNESS		07								
	16	СТІ	0	1	COLOR TRANSIENT IMPROVEMENT	PICTURE MODE					00	00	00	00	
	17	BON	0	1	BLACK OFFSET COMPENSATION	PICTURE MODE					00	00	00	00	
	18	BTD	0	3F	ADAPTIVE BLACK STRETCH	PICTURE MODE					00	00	00	00	
	19	NLD	15	3F	NON-LINEARITY AMPLIFIER	PICTURE MODE AND MULTIPLE MODE		00			15	15	00	15	
	1A	NLW	7	7	STEP WIDTH OF NON-LINEARITY AMPLIFIER		07								
	1B	VGD	15	3F	VARIABLE GAMMA	PICTURE MODE AND MULTIPLE MODE		1F			1F	1F	1F	1F]
	1C	VGW	0	7	STEP WIDTH OF VARIABLE GAMMA		00								
ļ	1D	PKD	3F	3F	PEAKING AMPLITUDE	PICTURE MODE					3F	30	0E	30	1
	1E	PKW	8	0F	STEP WIDTH OF PEAKING AMPLITUDE		08								
	1F	SPD	0	3F	STEPNESS CORRECTION	PICTURE MODE					00	00	00	00	
	20	CRD	11	3F	CORING LEVEL	PICTURE MODE					16	16	00	16	
	21	CRW	9	0F	STEP WIDTH OF CORING LEVEL		09								
	22	CRO	0	0F	CORING LEVEL OFFSET FOR VIDEO MODE		01								
	23	LWD	1F	3F	LINE WIDTH CORRECTION		1F								
	24	SNM	0	7	S/N MODE UNDER UNREALIBLE S/N CONDITION		00								
j	25	SNC	3	0F	S/N RATIO AVERAGE COUNTER	TV/Video			03	03					
	26	FMC	2	0F	FEATURE MODE MATCHING COUNTER		02								

		ionality	Function			50					_	60				Device Name
tegory	No.	Name		Single DRC 1250	Single DRC Progressive	PinP	TWIN	INDEX	Single DRC 100	Single DRC 1250	Single DRC Progressive	PinP	TWIN	INDEX	Single DRC 100	Name
MID	00	HPH	HORIZONTAL ACTIVE DISPLAY AREA PHASE	52	52	52	92	8D	52	52	52	52	7E	78	52	MB9491
	01	VPH	VERTICAL ACTIVE DISPLAY AREA PHASE	20	20	20	2A	26	12	25	25	25	2E	2D	14	1
	02	HSZ	HORIZONTAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	1
	03	vsz	VERTICAL ACTIVE DISPLAY AREA SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	1
	04	HPW	DISPLAY H-SYNC PLUS WIDTH	3F	3F	ЗF	ЗF	ЗF	3F	3F	3F	ЗF	ЗF	ЗF	ЗF	1
	05	VPW	DISPLAY V-SYNC PLUS WIDTH	03	03	03	03	03	03	03	03	03	03	03	03	
	06	YDL	DISPAY OUTPUT Y/C DELAY CORRECTION	00	00	00	00	00	00	00	00	00	00	00	00	
	07	МНР	MAIN PICTURE HORIZONTAL POSITION (SINGLE & PINP)	7F	7F	7F			7F	7F	7F	7F			7F	
	08	MVP	MAIN PICTURE VERTICAL POSITION (SINGLE & PINP)	7F	7F	7F			7F	7F	7F	7F			7F	
	09	MHS	MAIN PICTURE HORIZONTAL SIZE (SINGLE & PINP)	7F	7F	7F			7F	7F	7F	7F			7F	
	0A	MVS	MAIN PICTURE VERTICAL SIZE (SINGLE & PINP)	7F	7F	7F			7F	7F	7F	7F			7F	
	ов	PHP	PINP SUB PICTURE HORIZONTAL POSITION			6B						53				
	0C	PVP	PINP SUB PICTURE VERTICAL POSITION			5E						57				ļ
	0D	PHS	PINP SUB PICTURE HORIZONTAL SIZE			7F						7F				1
	0E 0F	PVS	PINP SUB PICTURE VERTICAL SIZE PINP SUB PICTURE HORIZONTAL			7F						7F				ł
	10	PVO	POSITION OFFSET			76						68				
	11	TMP	PINP SUB PICTURE VERTICAL POSITION OFFSET			6E						6B				
	12		TWIN MAIN PICTURE HORIZONTAL POSITION TWIN SUB PICTURE HORIZONTAL				00						00			
	13	TSP	TWIN SUB FICTURE HORIZONTAL POSITION TWIN MAIN & SUB PICTURE VERTICAL				01						01			
	14		POSITION			00	00	00				00	00	00		
	15	THS	TWIN MAIN & SUB PICTURE HORIZONTAL SIZE TWIN MAIN & SUB PICTURE VERTICAL			00	00	00				00	00	00		
	16	TVS	TWIN MAIN & SUB PICTURE FORIZONTAL	00	00	00	00	00	00	00	00	00	00	00	00	
	17	TVO	POSITION OFFSET TWIN MAIN & SUB PICTURE VERTICAL													
	18	xHS	POSITION OFFSET INDEX SUB PICTURE HORIZONTAL SIZE													
	19	xvs	INDEX SUB PICTURE VERTICAL SIZE													ł
	1A	XHG	INDEX HORIZONTAL GAP WIDTH													ł
	1B	XVG	BETWEEN PICTURES INDEX VERTICAL GAP WIDTH BETWEEN													
	1C	XHP	INDEX 1ST SUB PICTURES HORIZONTAL													
	1D	XVP	POSITION INDEX 1ST SUB PICTURES VERTICAL													
	1E	DHP	POSITION DRC HORIZONTAL ACTIVE AREA													
	1F	DHS	POSITION DRC HORIZONTAL ACTIVE PIXEL SIZE	7F	7F 7F	7F 7F	7F 7F	7F 7F	7F	7F	7F 7F	7F 7F	7F 7F	7F 7F	7F	
	20	DHS	DRC VERTICAL ACTIVE AREA LINE POSITION	1A	7F 1A	1A	3F	3F	1A	1A	7F 1A	7F 1A	39	39	1A	
	21	DVS	DRC VERTICAL ACTIVE AREA LINE SIZE	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	7F	ł
	22	VHP	VDO HORIZONTAL ACTIVE AREA POSITION			7F	7F	7F				7F	7F	7F		
	23	VHS	VDO HORIZONTAL ACTIVE PIXEL SIZE			7F	7F	7F				7F	7F	7F		1
	24	VEP	VDO VERTICAL ACTIVE AREA EVEN POSITION			1E	1E	1E				1B	1B	1B		
	25	vvs	VDO VERTICAL ACTIVE AREA LINE SIZE			7F	7F	7F				7F	7F	7F		l
	26	VOP	VDO VERTICAL ACTIVE AREA ODD POSITION			00	00	00				00	00	00		
	27	CLT	VDO CLAMP PULSE OUTPUT TIMING			7F	7F	7F				7F	7F	7F		l
	28	CLW	VDO CLAMP PULSE WIDTH			04	04	04				04	04	04		1
	29	VYD	VDO ANALOG INPUT Y/C DELAY CORRECTION			00	00	00				00	00	00		
	2A	VCR	VDO CROMA SIGNAL ORDER			01	01	01				01	01	01		I

		onality	Initial	Range	Function	Table and Note	Common				NRM				PICTUR			Device Name
gory	No.	Name						TV	Video	NRmode0	NRmode1	NRmode2	NRmode3	Dynamic	Standard/ Drama	Hi-Fine/ Soft	Personal	ivaille
М	00	FRZ	0	1	EXTERNAL MEMORY TEST BIT		00											UPD64
	01	NRM	0	3	NOISE REDUCTION OPERATION MODE													
	02	YCO	0E	0F	Y/C SIGNAL OUTPUT SELECTION		0D											
	03	SYC	1	3	SYSTEM CLOCK SELECTION		01											
	04	STD	0	3	STANDARD/NON-STANDARD OPERATION SELECTION		00											
	05	MSS	0	3	INTER-FRAME/INTER-LINE OPERATION SELECTION		00											
	06	KIL	3	3	KILLER/NON-KILLER OPERATION SELECTION		03											
	07	EAD	0	1	EXTERNAL Y-ADC SWITCH		00											
	08	ECS	1	3	EXTERNAL C-SYNC INPUT SELECTION		01											
	09	СРР	2	3	ADC INPUT LEVEL & CLUMP PULSE WIDTH SELECTION		02											
	0A	PWR	0	1 -	ADC INPUT WIDTH SWITCH		00											
	0B	HDP	5	7	HORIZONTAL PHASE ADJUSTMENT		05											
	0C	CDL	4	7	C-SIGNAL ADJUSTMENT		04											
	0D	DYC	2	0F	DY DETECTION CORING LEVEL ADJUSTMENT	NR MODE (0-3)				02	02	02	04					
	0E	DYG	0A	0F	DY DETECTION GAIN ADJUSTMENT	NR MODE (0-3)				0A	0A	0A	0A					
	0F	DCC	5	0F	DC DETECTION CAIN AD HIGTMENT	NR MODE (0-3)				05	03	03	05					
	10	DCG	5	0F	DC DETECTION GAIN ADJUSTMENT	NR MODE (0-3)				05	0A	0A	05					
	11	YNR	1	0F	YNR NON-LINEAR FILTER SETUP		01											
	12	CNR	1	0F	CNR NON-LINEAR FILTER SETUP		01											
	13	wsc	1	3	NOISE DETECTION CORING ADJUSTMENT		01											
	14	VTH	1	3	HYSTERESIS SELECTION FOR H-SYNC NON- STANDARD	TV/Video		01	01									
	15 16	LDR	2	3	SENSITIVITY SELECTION FOR H-SYNC NON- STANDARD SENSITIVITY SELECTION FOR FRAME-SYNC NON	TV/Video		01	01									
	17	VAP	3	7	STANDARD GAIN ADJUSTMENT FOR VERTICAL SHAPE	TV/Video		02	02									
	18	VAI	0C	1F	CORRECTION VANISHING ADJUSTMENT FOR VERTICAL SHAPE	PICTURE MODE								03	00	00	00	
					CORRECTION	PICTURE MODE								0C	00	00	00	
	19	TST	0	1	TEST BIT		00											
	1A	YPF	3	3	CENTER FREQUENCY SELECTION FOR Y-PEAKING BPF	PICTURE MODE								03	03	03	03	
	1B	YPG	8	0F	GAIN ADJUSTMENT FOR Y-PEAKING BPF	PICTURE MOD								0A	08	08	08	
	1C	VSE	0A	0F	LINE COMB FILTER SETUP		0A											
	1D	CCN	0	1	C-SIGNAL SPLIT FILTER SETUP		00											
	1E	cos	0	1	C-SIGNAL DELAY SWITCH AT NOISE REDUCTION		00											
	1F 20	SDC	1	1	DC DETECTION SENSITIVITY SWITCH DY DETECTION LOWER-LEVER SENSITIVITY SWITCH		00											
	21	D2G	4	7	D2 GAIN SELECTION		04											
	22	YHC	0	3	Y-SIGNAL HIGHER-LEVEL CORING SELECTION	PICTURE MOD	00							00	00	00	00	
	23	YHG	0	1	Y-SIGNAL HIGHER-LEVEL COAING SELECTION Y-SIGNAL HIGHER-LEVEL GAIN SWITCH	PICTURE MOD	00							00	00	00	00	
	24	SHT	0	0F	NON-STANDARD DETECTION & H/V COUNTER TEST BITS	PICTORE MOD	00							00	00		00	
	25	CLK	8	0F	CLOCK TEST BIT		08											
	26	PLL	0D	0F	PLL FILTER SETUP		0D											
	27	KRF	3	0F	KILLER DETECTION REFERENCE ADJUSTMENT		03											
	28	HSL	0C	0F	H-SYNC SLICE LEVEL ADJUSTMENT		OC OC											
	29	VSL	8	0F	V-SYNC SLICE LEVEL ADJUSTMENT		08											
	2A	BPS	4	0F	INTERNAL BURST GATE START POSITION ADJUSTMENT		04											
	2B	BPW	0A	0F	INTERNAL BURST GATE WIDTH ADJUSTMENT		0A											
	2C	ADC	3	3	ADC CLOCK DELAY SELECTION		03											
	2D	APD	1	1	ADC POWER-DOWN SWITCH		01											Ì
	2E	NSD	1	1	NON-STANDARD DETECTION TEST BIT		01											
	2F	SPD	2	3	MEMORY POWER-DOWN SWITCH		02											
	30	CNT	0	1	CNR TEST BIT		00											İ

TVG	Funct	ionality	Initial	Range	Function	Table and Note		VIDEO PIC	TURE MODE			TV PICTU	RE MODE		Device
							Dynamic	Standard	Hi-Fine/	Personal	Dynamic	Standard/	Hi-Fine/	Personal	Name
Category	No.	Name						00	Soft			Drama	Soft		
2CM	00	APA	1	1	2D COMB APACON ON/OFF	PICTURE MODE	01	00	00	00	00	00	00	00	CXA2069Q

TVG	Functi	onality	Initial	Range	Function	Table and Note	Common				Init	ial Value (D	etailed)				Device
								Sur	Sur	Sur TRS	Sur SIM	Sur Off	Dynamic	Standard/	Hi-Fine/	Personal	Name
Category	No.	Name						VDD	VDP					Drama	Soft		
DSP	00	DUL	0	3	DIP UNLOCK DETECTION MODE		00										TC9446F
	01	DIM	3	3	DIGITAL INPUT MODE		03										
	02	TFM	5A	7F	TRUSURROUND FRONT MINUS	VDD/VDP		5A	5A								
	03	TFP	12	7F	TRUSURROUND FRONT PLUS	VDD/VDP		12	12								
	04	TCE	40	7F	TRUSURROUND CENTER	VDD/VDP		40	40								
	05	TS1	20	FF	TRUSURROUND SURROUND #1	VDD/VDP		20	EO								
	06	TS2	20	7F	TRUSURROUND SURROUND #2	VDD/VDP		20	20								
	07	TSP	7B	7F	TRUSURROUND SURROUND PLUS	VDD/VDP		68	68								
	08	TSM	7B	7F	TRUSURROUND SURROUND MINUS	VDD/VDP		68	68								
	09	LFE	5A	7F	LOW FREQUENCY EFFECT		5A										
	0A	BHL	40	7F	BBE EFFECT 1 FOR BBE HIGH	VDD/VDP/TRS/SIM/OFF		33	33	33	28	40					
	0B	внн	48	7F	BBE EFFECT 2 FOR BBE HIGH	VDD/VDP/TRS/SIM/OFF		33	33	33	28	40					
	0C	BLL	33	7F	BBE EFFECT 1 FOR BBE LOW	VDD/VDP/TRS/SIM/OFF		2B	2B	2B	24	33					
	0D	BLH	33	7F	BBE EFFECT 2 FOR BBE LOW	VDD/VDP/TRS/SIM/OFF		2B	2B	2B	24	33					
	0E	DLR	1	7	DELAY SELECTION AT DSP RESET		07										
	0F	BBE	1	3	BBE SELECTION	EXCEPT PERSONAL		·					01	01	03		

TVG	Funct	ionality	Initial	Range	Function	50	60	Common	Device Name
Category	No.	Name							
TXT	00	TXH	4B	3F	TELETEXT HORIZONTAL POSITION FOR PHILIPS			4B	SAA5261
	01	TXV	0E	3F	TELETEXT VERTICAL POSITION FOR PHILIPS			0E	

TVG	Functi	onality	Initial	Range	Function	Table and Note		Initial Valu	e (Detailed)	Device Name
Category	No.	Name					Common	50	60	
ОРМ	00	OSH	12	3F	OSD H POSITION		12			CXP750096
	01	FW1	0	3F	OSD ODD/EVEN FIELD WINDOW SETUP #1		00			
	02	FW2	3	3F	OSD ODD/EVEN FIELD WINDOW SETUP #2		03			
	03	ОНО	9	0F	OSD H Position Offset for INDEX		05			
	04	IL1	1C	3F	INDEX SUB-SCREEN OSD 1st LINE VERTICAL POSITION	50/60Hz		25	22	
	05	IVO	2F	3F	INDEX SUB-SCREEN OSD VERTICAL POSITION	50/60Hz		2B	20	
	06	СОМ	0	03	COMB OPERATION SELECTION		00			
	07	APC	1	1	APC SWITCH		01			
	08	TSY	0	03	TV SYSTEM SELECTION UNDER SEARCHING WITH AUTO TV SYSTEM		00			
	09	MUT	0	1	NO SIGNAL MUTE		00			
	0A	AFM	1	1	AUTO FM SWITCH		01			
	0B	TVO	3	7	V-ANGLE CORRECTION TO PICTURE ROTATION		03			
	0C	DBL	0	1	DISABLE BLUEBACK FUNCTION		01			
	0D	SSO	1	3	SPEED CH SEARCH SELECTION		01			
	0E	TRP	0	3F	MPEG/JPEG NOISE REDUCTION FOR EACH INPUT		00			
	0F	SCH	1	7F	CH SELECTION FOR SHIPPING CONDITION	NTSC	7F			
	10	SCA	1	1	CABLE/AIR SELECTION FOR SHIPPING CONDITION	NTSC	01			
	11	DMG	0	1	DISABLE MENU-OPERATION GUIDE		00			
	12	VSN	0	1	ENABLE NOISE REDUCTION IN VIDEO MODE		00			
	13	RUC	0F	0F	RF SIGNAL CHANGE COUNTER AFTER UNLOCKED	Disabled if set to OFH	04			
	14	RLC	0F	0F	RF SIGNAL CHANGE COUNTER AFTER LOCKED	Disabled if set to OFH	01			

TVG	Functi	onality	Initial	Range	Function	Common	Device Name
Category	No.	Name					
OPB	00	OP1	E7	FF	OPTION BIT 1 (SEE THE SPECIFIED SHEET)	6F	option-bit
	01	OP2	13	FF	OPTION BIT 2 (SEE THE SPECIFIED SHEET)	13	

Abbreviation:

FF = ?????? ECO = Eco Mode

R4 = DRC1250 VC = V-Compressed Mode PR = Preset PIP NC = Non-Compressed Mode

4P = R4 or PR Sur = Surround

> TRS = Tru Surround SIM = Simulated

NOTE

• shaded items are fixed data.

no data

• Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.

• Note for Different Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.

In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

OPTION NOTE

COM Comb Operation Selection 00 = automatic operation (depends on color system status),

01 = no comb operation, 02 = forced 2D-comb operation,

03 = forced 3D-comb operation

TSY TV System Selection for Auto TV System 00 = B/G, 01 = I, 10 = D/K, 11 = M

SSO Speed CH Search Selection 00 = normal, 01 = 4 times, 10 = 6 times, 11 = 8 times

TRP MPEG/JPEG Noise Reduction

Input – TV	Video 1	Video 2	Video 3	Video 4	DVD
------------	---------	---------	---------	---------	-----

OP1 Items

Item	TOP	NICAM	HDEV	Reserved	Progressive	DVD Input	AV Ir	nput	HEX
KV-ES38M31	1	1	1	0	1	1	1	1	EF
KV-ES38M61	0	1	1	0	1	1	1	1	6F
KV-ES38M90	0	1	1	0	1	1	1	1	6F
KV-ES38M91	0	1	1	0	1	1	1	1	6F

DRC 3 Mode DRC - MF3 Mode 1 = 3 Mode (ES38)

AV Input 00 = no AV Input 01 = 1 AV Input 10 = 3 AV Input 11 = 4 AV Input

OP2 Items

Item	C-Text	Korea Stereo	Korea Mode	A-TV SYS	USST	SSV-Model	OSD Language	HEX
KV-ES38M31	0	0	0	1	0	0	11	13
KV-ES38M61	0	0	0	1	0	0	11	13
KV-ES38M90	0	0	0	1	0	0	11	13
KV-ES38M91	0	0	0	1	0	0	11	13

A-TV sys Auto TV System in Auto Program 0 = Disabled, 1 = Enabled

SSV Model SSV = Production Model 0 = Original, 1 = Disable PIP/TWIN/Digital-IN

OSD Language 00 = English only, 01 = English & Chinese, 10 = English & Arabic 11 = English, Chinese & Arabic

NOTE

No.	Modes	Details	Entry Conditions
1.	50NC/60NC	Signal 50/60Hz Non-Compressed mode.	Input 50Hz(PAL)/60Hz(NTSC), wide mode OFF (TV/ video mode)
2.	50VC/60VC	Signal 50/60Hz V-Compressed mode.	Input 50Hz(PAL)/60Hz(NTSC), wide mode ON (TV/Video mode)
3.	ECO ON/OFF NC	Eco modeON/OFF Non-Compressed mode.	ECO mode ON/OFF, wide mode OFF
4.	ECO ON/OFF VC	ECO mode ON/OFF V-Compressed mode.	ECO mode ON/OFF, wide mode ON
5.	50/60 DVD	Signal 50/60Hz Digital Video Disk	Input 50Hz(PAL)/60Hz(NTSC), DVD
6.	Multi Comb	Multi Comb Filter	Input PAL, NTSC 3.58, Service mode category OPM 03 COM 01 (Multi Model only)
7.	3D Comb	3 Dimensional Comb Filter	Input NTSC 3.58 only, Service mode category OPM 03 COM 02 (NTSC model only)
8.	S-Input	S-Video Input	Connect S-Video Cable, video mode

6-3. PICTURE QUALITY ADJUSTMENTS

H-TRAPIZIUM ADJUSTMENT

- 1. Input a cross hatch/dot signal.
- 2. Adjust DAC 4 HTR to make H-Trapizoid distortion best.

SUB CONTRAST, SUB HUE, SUB COLOR

Adjustment condition PIC SAJ 00 3F DYC 0 06 0E CLO 6 10 HUO 7 13 PIO 0 **JGL** 04 **BBT** 0

05

PICTURE QUALITY : HI-FINE ECO MODE : OFF WIDE MODE : OFF DRC-MF : DRC1250

LML 3

INPUT SIGNAL

Video Color Bar (White and Color 75%) RF Color Bar (White and Color 75%)

MEASUREMENT POINT

VR; R100 (the pin 6 of CN1100 at A board) VB; B100 (the pin 7 of CN1100 at A board)

CAUTION

After the above Adjustment, these adjustment parameters must be recovered to the original condition.

Original condition

SAJ 00 PIC 28 HI-FINE SAJ 06 DYC 0 HI-FINE

	50 TV	50 VIDEO	60 TV	60 VIDEO
OE CLO	9	8	6	6
10 HUO	8	8	9	9

13 PIO TWIN = 3 JGL 04 BBT 3 05 LML 0

1. NTSC VIDEO IN PUT

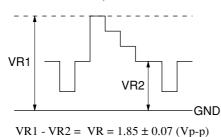
Input signal; NTSC color bar, 75% to Video 1. [TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition: SAJ 00 PIC 3F COL 02 0 JGL 01 RGB 4 SAJ 13 PIO 0

Adjusting parameter:

LEFT ; YCT 08 YOL RIGHT ; SYC 08 YOL



(ii) SUB HUE/SUB COL

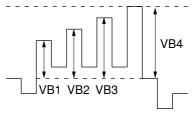
Condition: SAJ 02 COL 1F JGL 01 RGB 7 SAJ 10 HUO 7

Adjusting parameter:

LEFT ; YCT 0A COL YCT 00 TNT

RIGHT ; SYC 0A COL

SYC 00 TNT



 $VB1 = VB4 \pm 70 \text{ mV}$ $VB2 = VB3 \pm 70 \text{ mV}$

2. NTSC RF INPUT

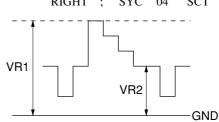
Input signal; NTSC RF color bar, 75%. [TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition: SAJ 00 PIC 3F 02 COL 0 JGL 01 RGB 4

Adjusting parameter:

LEFT ; YCT 04 SCT RIGHT ; SYC 04 SCT



 $VR1 - VR2 = VR = 1.85 \pm 0.07 (Vp-p)$

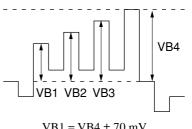
(ii) SUB HUE/SUB COL

Condition: SAJ 02 COL 1F JGL 01 RGB 7 SAJ 10 HUO 7

Adjusting parameter:

LEFT ; YCT 03 SCL YCT 00 TNT

RIGHT ; SYC 03 SCL SYC 00 TNT



 $VB1 = VB4 \pm 70 \text{ mV}$ $VB2 = VB3 \pm 70 \text{ mV}$

3. PAL RF INPUT

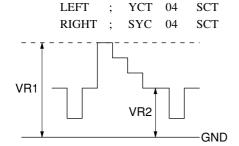
Input signal; PAL RF color bar, 75%. [TWIN] mode, [Service] mode.

(i) SUB CONTRAST

Condition: SAJ 00 PIC 3F SAJ 02 COL 0

JGL 01 RGB 4

Adjusting parameter:



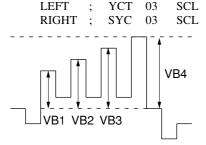
 $VR1 - VR2 = VR = 1.85 \pm 0.07 (Vp-p)$

(ii) SUB HUE/SUB COL

Condition: SAJ 02 COL 1F

JGL 01 RGB 7

Adjusting parameter:



 $VB2 = VB3 = VB4 = \pm 70 \text{ mV}$

6-4. DEFLECTION ADJUSTMENTS

FOR DRC 1250(50Hz) MODE

- 1. Set to Service Mode.
- 2. Input a Pal cross hatch/dot signal.
- 3. Set the following condition.

 Picture Mode to DYNAMIC, Picture Rotation to +/-0 and Eco Mode to OFF.
- 4. Set to DRC 1250 mode.
- 5. Using the 1 and 4 buttons select category GEO (Service Mode).
- 6. Raise/lower the data with the 3 and 6 buttons. Select and adjust the following items to obtain optimum image.

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW

- 7. Using the **1** and **4** buttons select category DAC (Service Mode).
- 8. Select and adjust the following items to obtain optimum image. Raise/lower the data with the 3 and 6 buttons. Select and adjust the following item to obtain optimum image.

GEO:	03	CCP	LOWER CORNER PIN
	04	HTR	HORIZONTAL TRAPEZIUM

- 9. Select "GEO 04 HSZ" with the 1 and 4 buttons.
- 10. Confirm the H Size condition. If necessary, adjust the H SIZE to get a best condition.
- 11. Write into the memory by pressing MUTING then 0 on the remote commander.

FOR DRC100(50Hz) MODE

12. Change the DRC-MF to DRC100 and then adjust the following items.

Service Item

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW

13. Repeat step 5 and 6.

FOR PIP(50Hz) MODE

14. Change to PIP mode. (PIP: ON) and then adjust the following items.

Service Item

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW
DAC	01	HLN	H LINEARITY
	02	MDP	MIDDLE PIN
	03	CCP	LOWER CORNER PIN
	04	HTR	HORIZONTAL TRAPEZIUM

15. Repeat step 5, 6 and 8.

FOR TWIN(50Hz) MODE

- 16. Change to TWIN mode (TWIN: ON)
- 17. Copy "GEO 00 VSZ, 04 HSZ, 05 HPS (PIP 50Hz)" "GEO 00 VSZ, 01 VPS, 04 HSZ, 05 HPS (TWIN 50Hz)"
- 18. Adjust "GEO 09 TRZ".

FOR PROGRAM INDEX(50Hz) MODE

- 19. Change to PROGRAM INDEX MODE.
- 20. Write "GEO 00 VSZ (INDEX 50Hz)" as "GEO 00 VSZ (PIP 50Hz)" 4 step.
- 21. Copy "GEO 01 VPS, 04 HSZ, 05 HPS (PIP 50Hz)" to "GEO 01 VPS, 04 HSZ, 05 HPS (INDEX 50Hz)".
- 22. Adjust "GEO 09 TRZ".

FOR WIDE MODE DRC1250(50Hz)

- 23. Change to VIDEO MODE.
- 24. Change to DRC-MF: DRC1250, WIDE MODE: ON
- 25. Adjust the following item.

Service Item

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW
DAC	01	HLN	H LINEARITY
	02	MDP	MIDDLE PIN
	03	CCP	LOWER CORNER PIN
	04	HTR	HORIZONTAL TRAPEZIUM

26. Repeat step 5, 6 and 8.

FOR WIDE MODE, DRC100(50Hz)

- 27. Change to VIDEO MODE.
- 28. Change to DRC-MF: DRC100, WIDE: ON
- 29. Adjust the following item.

Service Item

00	VSZ	V SIZE
01	VPS	V POSITION
02	VLN	V LINEARITY
03	SCO	S CORRECTION
04	HSZ	H SIZE
05	HPS	H POSITION
06	PAP	PIN AMP
07	UPN	UPPER CORNER PIN
08	LPN	LOWER CORNER PIN
09	TRZ	TRAPEZIUM
0A	AGL	AFC ANGLE
0B	BOW	AFC BOW
01	HLN	H LINEARITY
02	MDP	MIDDLE PIN
03	CCP	LOWER CORNER PIN
04	HTR	HORIZONTAL TRAPEZIUM
	01 02 03 04 05 06 07 08 09 0A 0B 01 02 03	01 VPS 02 VLN 03 SCO 04 HSZ 05 HPS 06 PAP 07 UPN 08 LPN 09 TRZ 0A AGL 0B BOW 01 HLN 02 MDP 03 CCP

FOR WIDE MODE, PIP(50Hz)

- 30. Change to VIDEO MODE.
- 31. Change to PIP: ON, WIDE MODE: ON
- 32. Adjust all items listed in number no.29.
- 33. Repeat step 5, 6 and 8.

FOR DRC1250(60Hz) MODE

- 34. Input 525/60Hz signal. Change to DRC-MF: DRC1250.
- 35. Copy "DAC 00 HCT (DRC1250, 50Hz)" to "DAC 00 HCT (DRC1250, 60Hz)".
- 36. Adjust the following items.

Service Item

GEO:	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC VANGLE
	0B	BOW	AFC BOW
DAC	01	HLN	H LINEARITY
	02	MDP	MIDDLE PIN
	03	CCP	LOWER CORNER PIN
	04	HTR	HORIZONTAL TRAPEZIUM

37. Repeat step 5, 6 and 8.

FOR DRC100(60Hz) MODE

38. Change to DRC-MF: DRC100 and then adjust the items listed in no.36.

FOR PIP(60Hz) MODE

- 39. Change to PIP mode (PIP: ON) and then adjust the items listed in no.36.
- 40. Repeat step 5, 6 and 8.

FOR TWIN(60Hz) MODE

- 41. Change to TWIN: ON
- 42. Copy "GEO 00 VSZ, 04 HSZ, 05 HPS (PIP 60Hz)" to "GEO 00 VSZ, 01 VPS, 04 HSZ, 05 HPS (TWIN 60Hz)"
- 43. Adjust "GEO 09 TRZ".

FOR PROGRAM INDEX(60Hz) MODE

- 43. Change to PROGRAM INDEX MODE.
- 44. Copy "GEO 00 VSZ, 04 HSZ, 05 HPS (PIP 60Hz)" to "GEO 00 VSZ, 01 VPS, 04 HSZ, 05 HPS (TWIN 60Hz)"
- 45. Adjust " GEO 09 TRZ".
- 46. Repeat step 5, 6 and 8.

FOR WIDE MODE, DRC1250(60Hz)

- 47. Change to VIDEO MODE: Input 525/60Hz singal.
- 48. Change to DRC-MF: DRC1250, WIDE MODE: ON
- 49. Adjust the items listed in no.36.

FOR WIDE MODE, DRC100(60Hz)

- 50. Change the VIDEO MODE: Input 525/60Hz signal.
- 51. Change to DRC-MF: DRC100, WIDE MODE: ON.
- 52. Adjust the items listed in no.36 and repeat step 5, 6 and 8.

FOR WIDE MODE, PIP(60Hz)

- 53. Change the VIDEO MODE: Input 525/60Hz signal.
- 54. Change to PIP: ON, WIDE MODE: ON.
- 55. Adjust the items listed in no.36 and repeat step 5, 6 and 8.

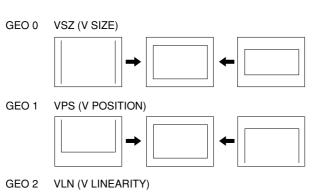
6-5. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

- 1. Enter to Service Mode.
- 2. Press commander buttons 5 and 0 (Data Initialize), and 2 and 0 (Data Copy) to initialize the data.
- 3. Call each item number and check if the respective screen shows the normal picture.
 - In cases where items are not well adjusted, rectify the items with fine adjustment.
- 4. Select item numbers "OPB00" (OP1), "OPB01" (OP2) and respectively set the bit per model with command buttons 3 and 6.
- 5. Press commander buttons 8 and 0 (Test Normal) to return to the data that was set on the shipment from the factory. (This will also cancel Service Mode).

6-6. PICTURE DISTORTION ADJUSTMENT (1)

PICTURE DISTORTION ADJUSTMENT (2)

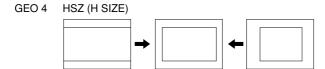
Item Number 00 – 0B





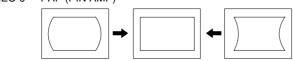












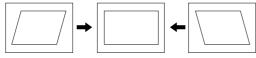
GEO 07 UPN (UPPER CORNER PIN) GEO 08 LPN (LOWER CORNER PIN)



GEO 9 TRZ (TRAPEZIUM)



GEO 0A AGL (AFC.ANGLE)

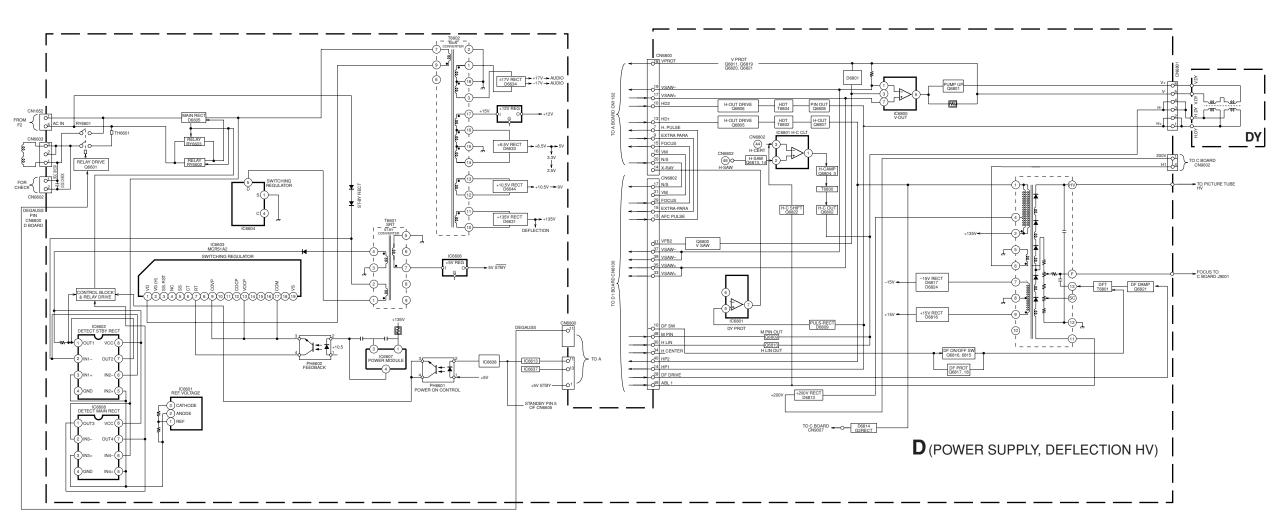


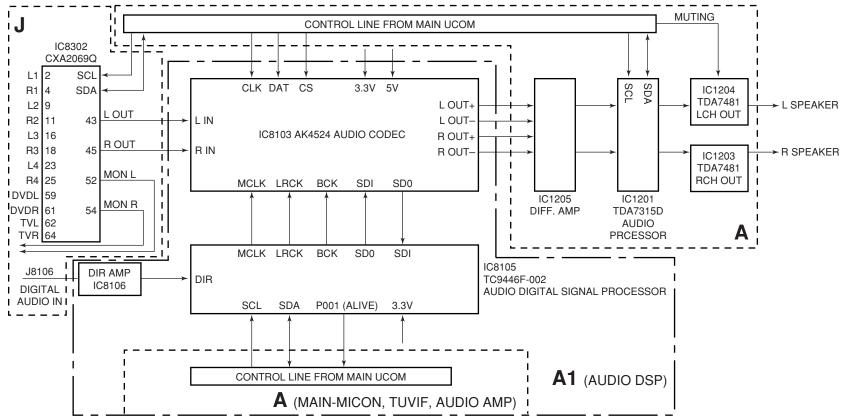
GEO 0B BOW (AFC.BOW)

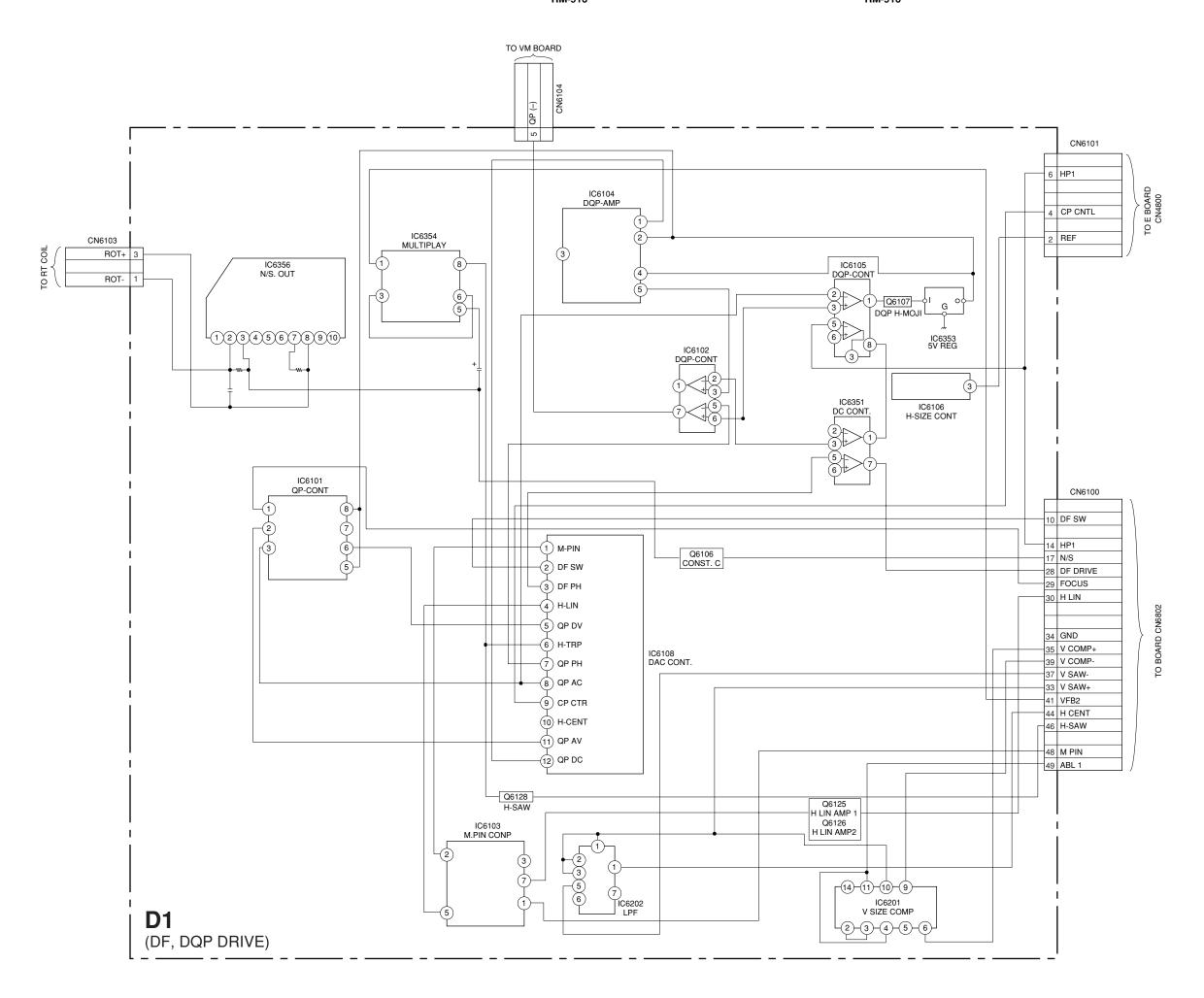


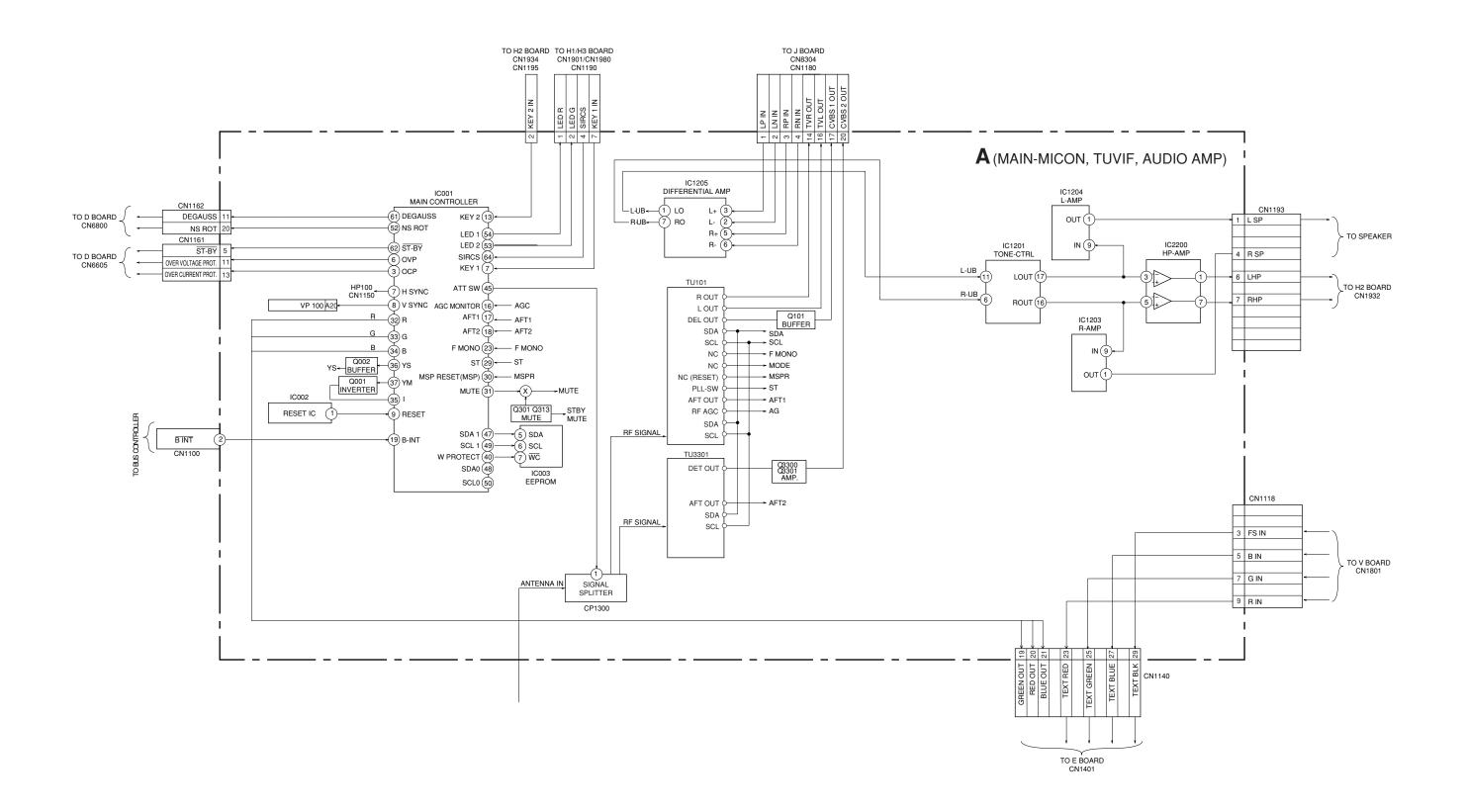
SECTION 7 DIAGRAMS

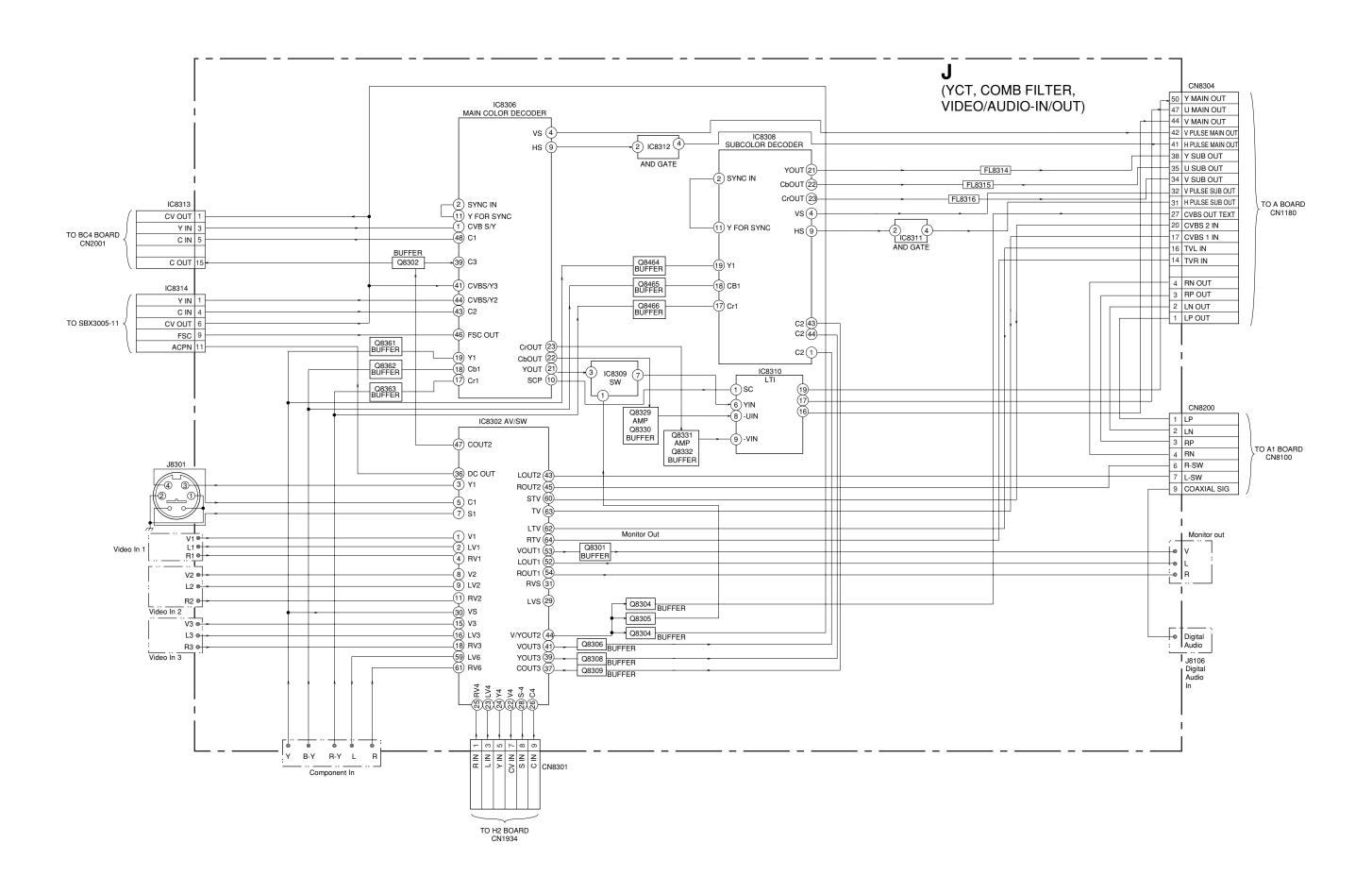
7-1. BLOCK DIAGRAM

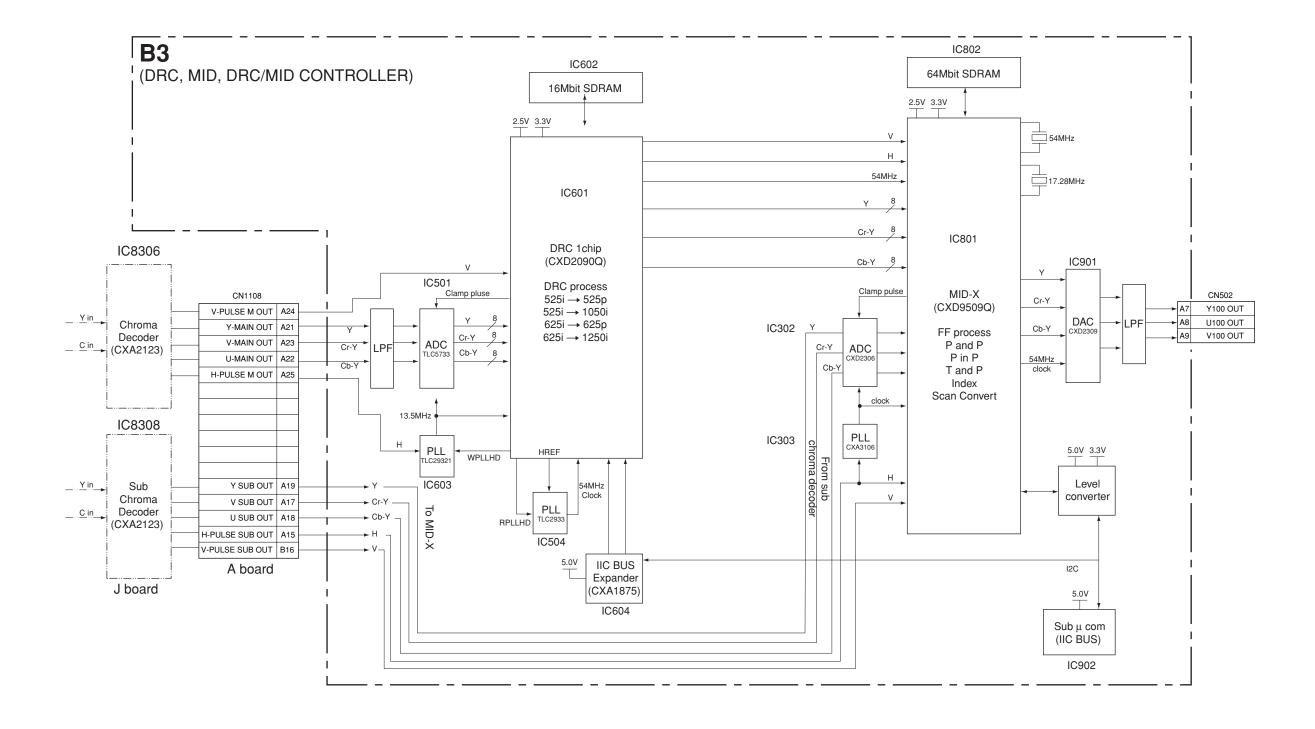


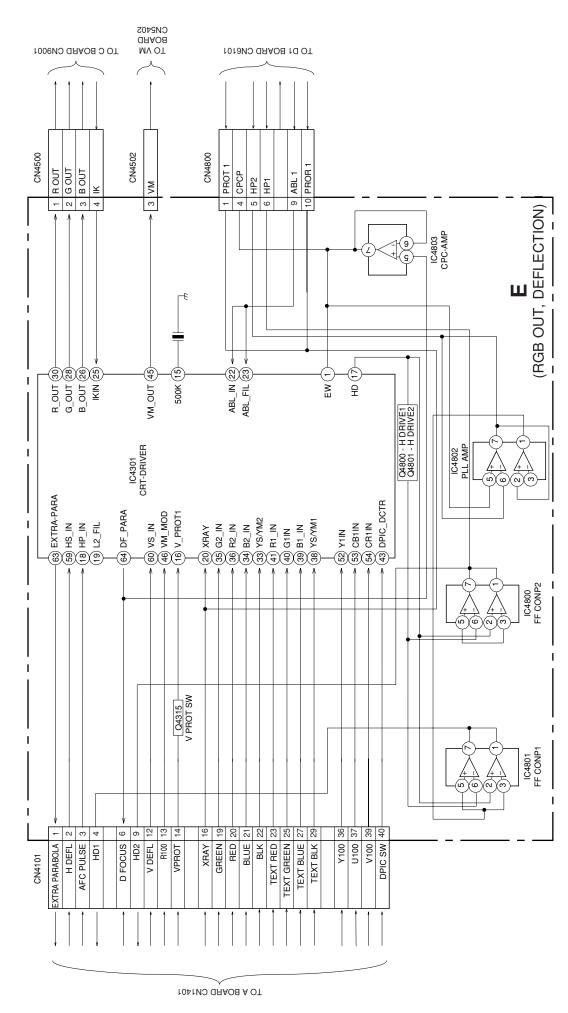












7-2. SCHEMATIC DIAGRAM

Note:

- All capacitors are in µF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted
- · All resistors are in ohms.
 - $k\Omega = 1000\Omega$, $M\Omega = 1000k\Omega$
- Indication of resistance which does not have rating electrical power is as follows.

Pitch: 5 mm Rating electrical power 1/4W (CHIP: 1/10W)

- : nonflammable resistor.
 - Δ : internal component.
- : panel designation or adjustment for rrepair.
- All variable and adjustable resistors have characteristic curve B unless otherwise noted.
- Readings are taken with a color-bar signal input.

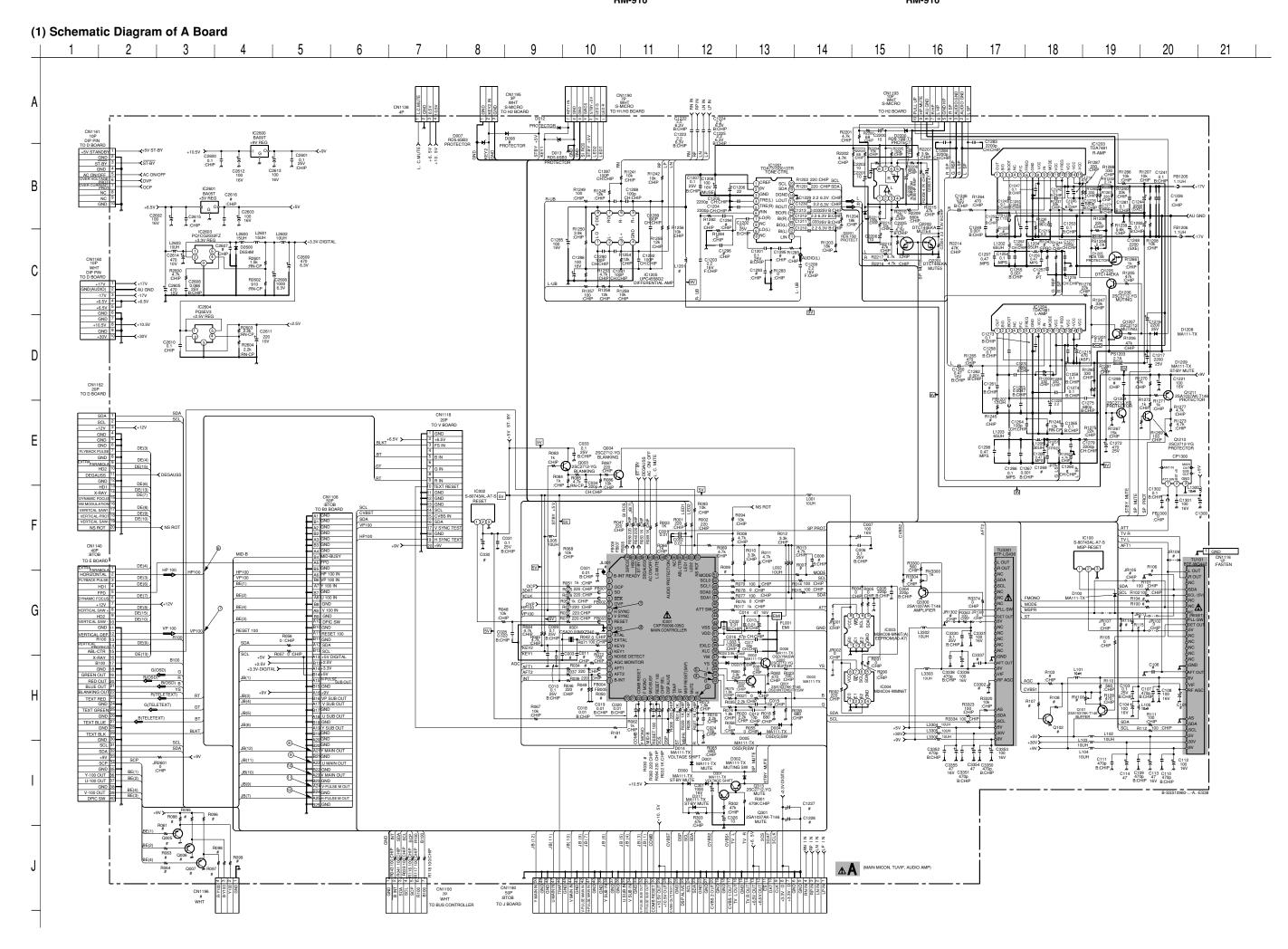
no mark : Common <u>underline</u> : PAL () : SECAM [] : NTSC 3.58 << >> : NTSC 4.43

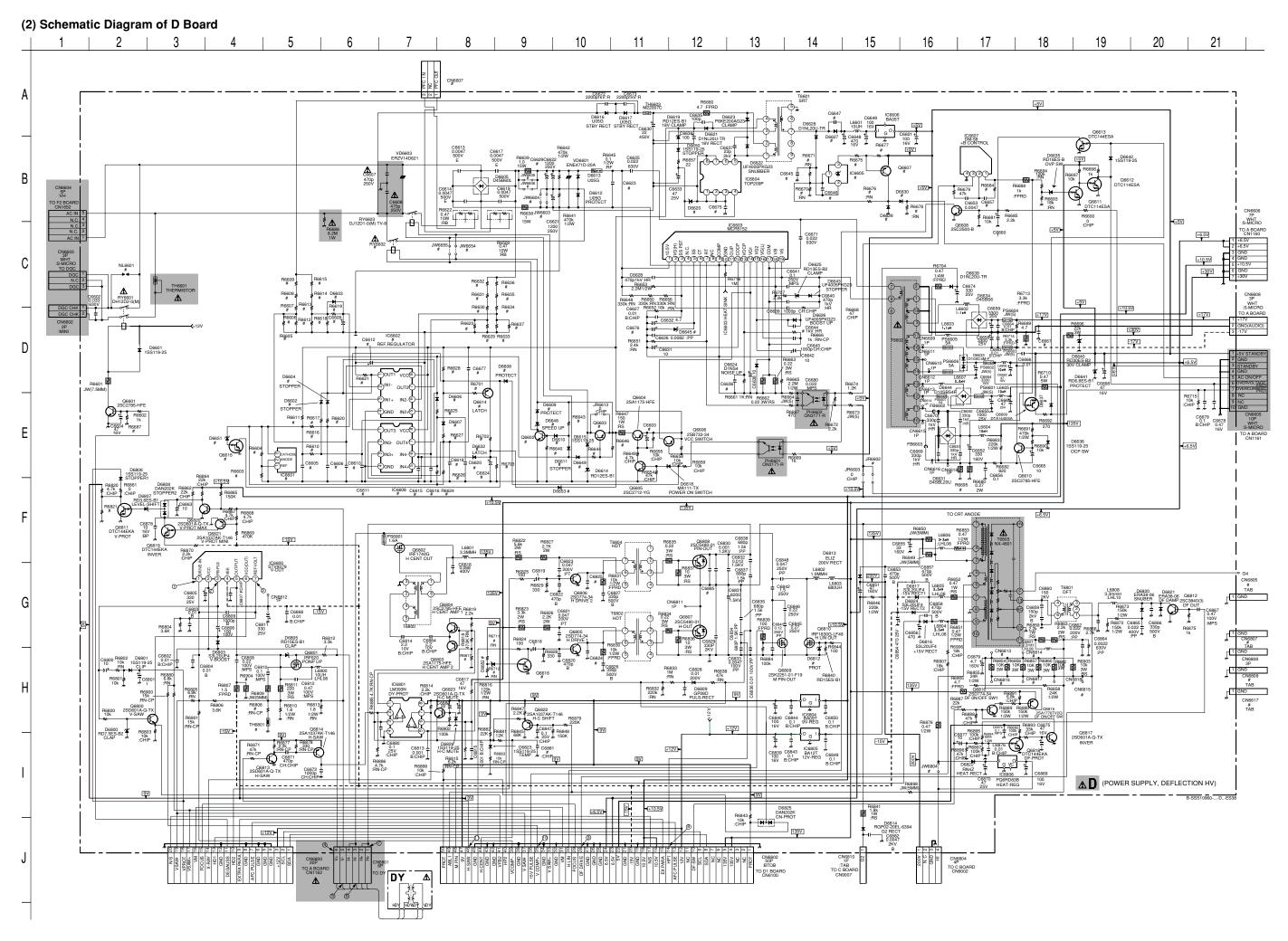
- Readings are taken with a 10 M Ω digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- · All voltage are in Volt.
- * : Cannot be measured.
- Circled numbers are waveform references.
- B +bus.
 B = B -bus.
- ⇒ : signal path.

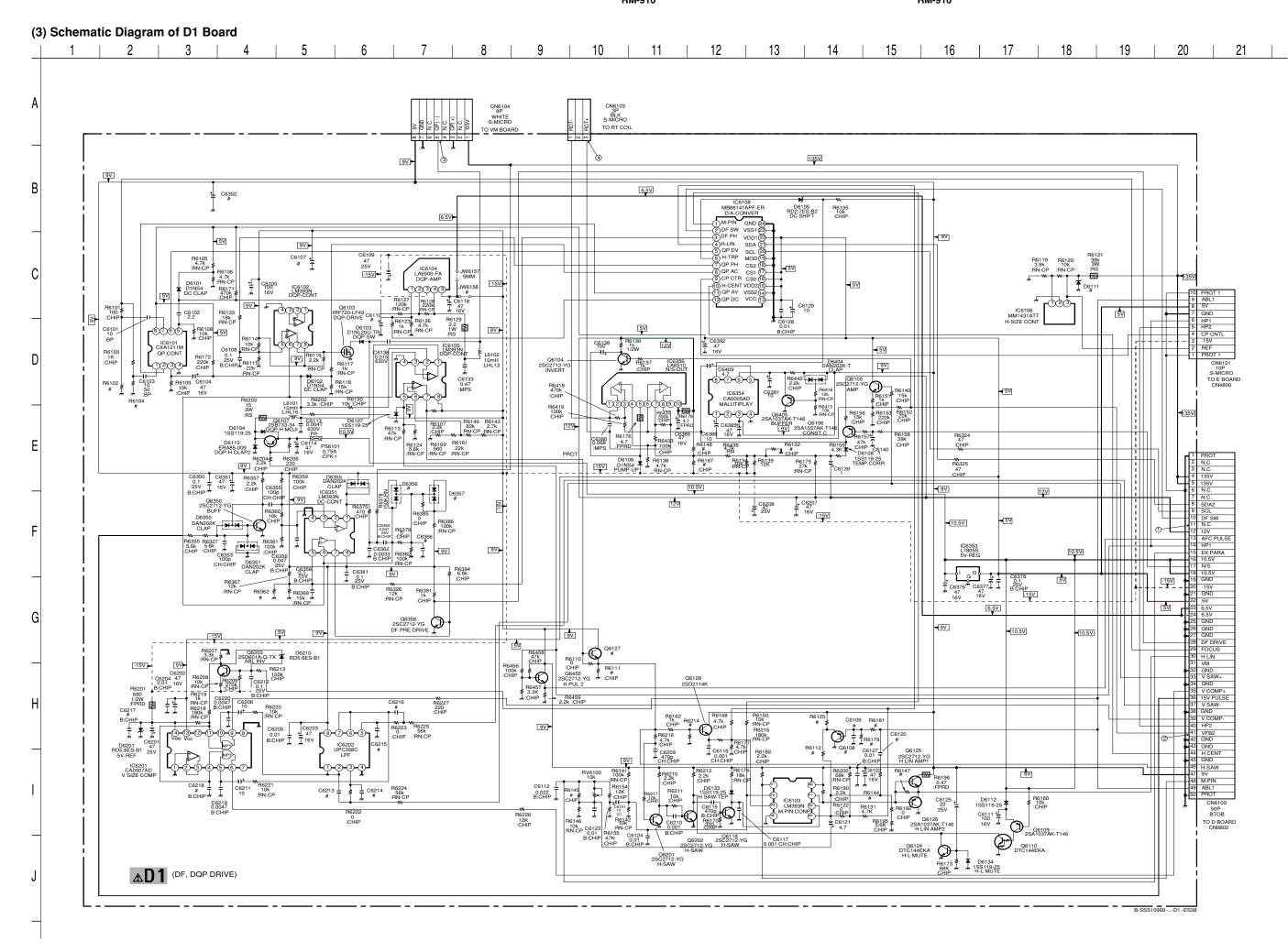
Reference information

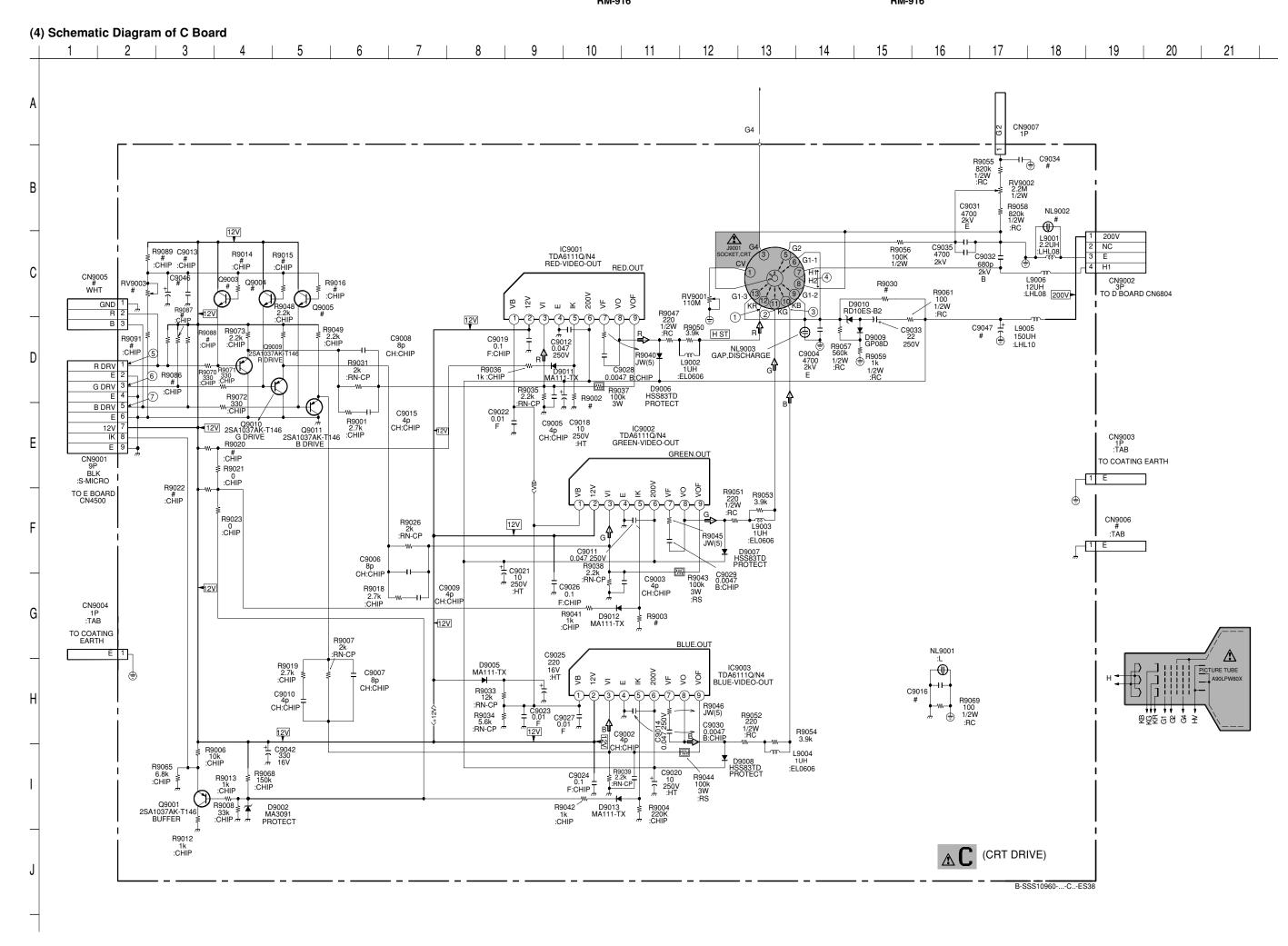
RESISTOR :RN METAL FILM SOLID : RC : FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FUSE NONFLAMMABLE METAL OXIDE : RS : RB NONFLAMMABLE CEMENT NONFLAMMABLE WIREWOUND :RW ADJUSTMENT RESISTOR COIL : LF-8L MICRO INDUCTOR CAPACITOR : TA **TANTALUM** :PS STYROL :PP POLYPROPYLENE :PT MYLAR METALIZED POLYESTER : MPS : MPP METALIZED POLYPROPYLENE : ALB **BIPOLAR** : ALT HIGH TEMPERATURE HIGH RIPPLE : ALR

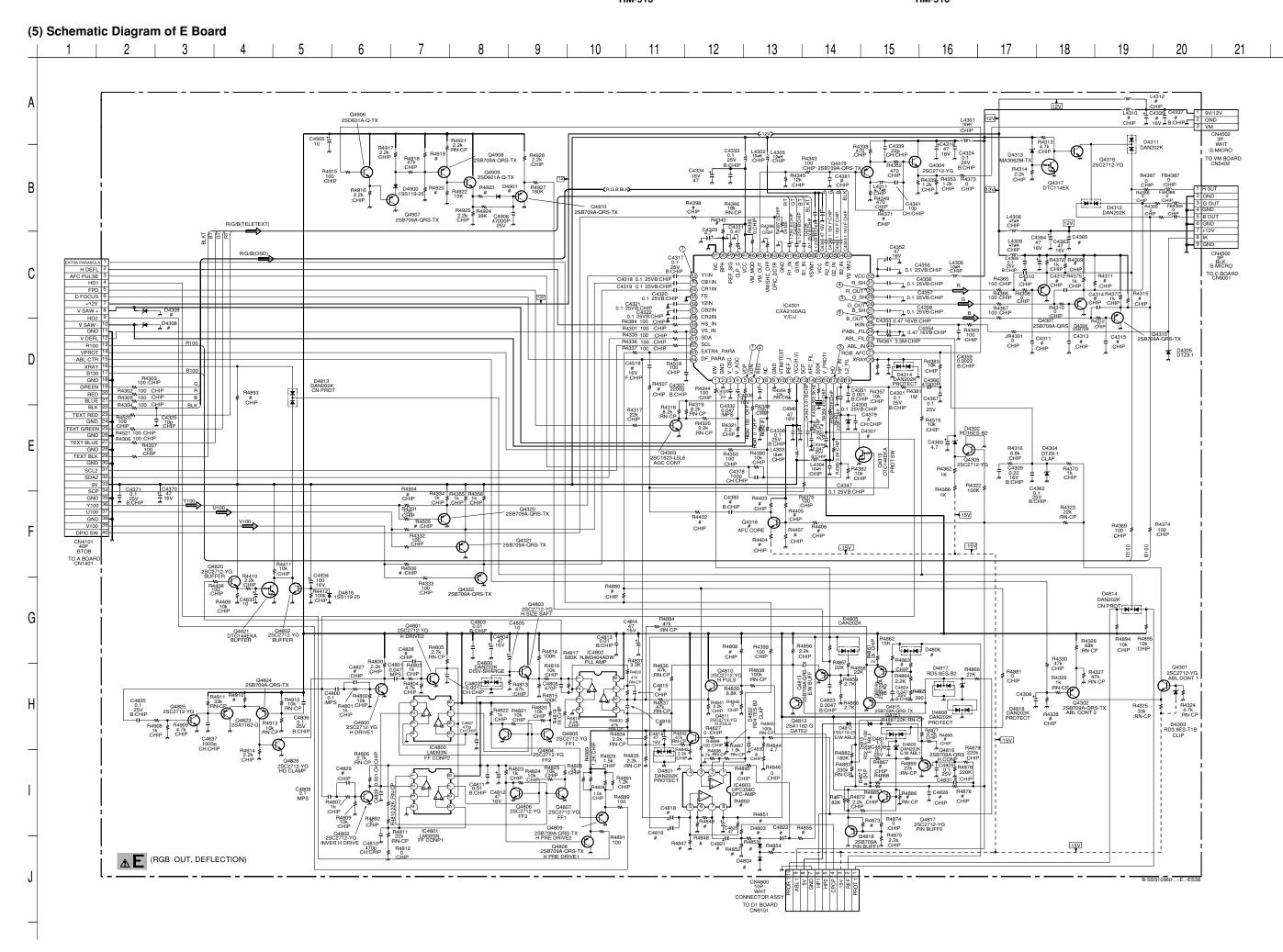
Note: The component identified by shading and mark \triangle are critical for safety. Replace only with part number specified.



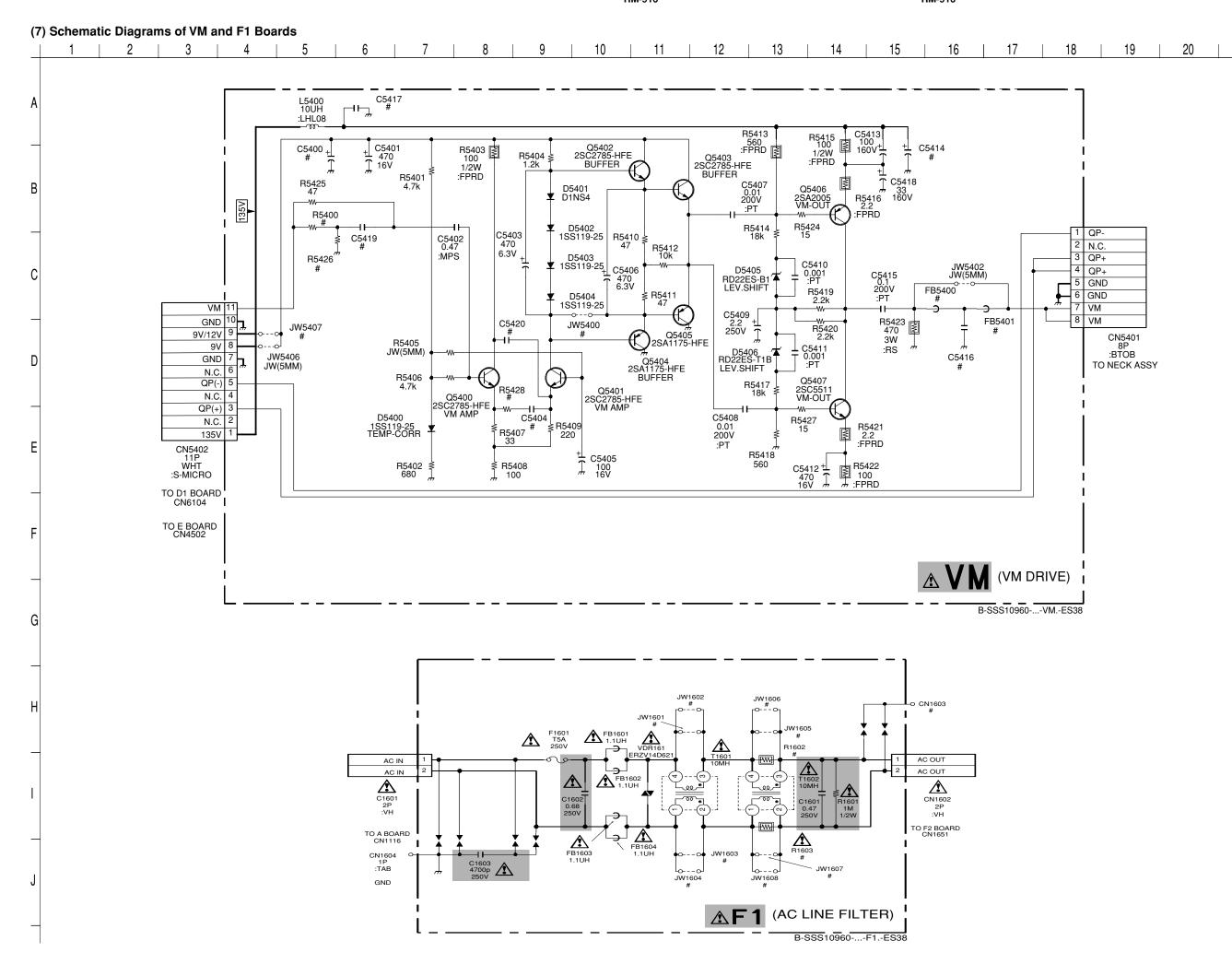




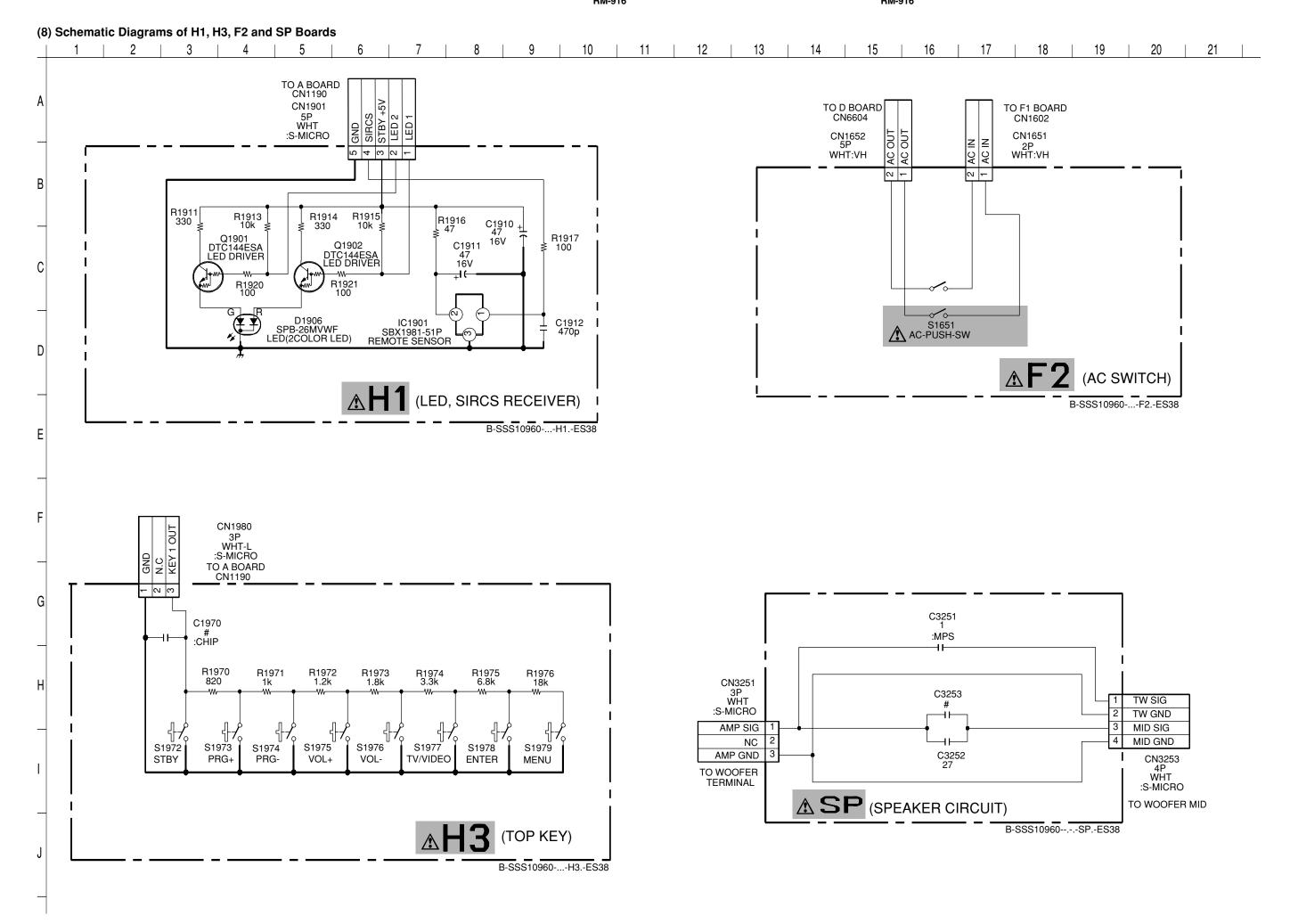


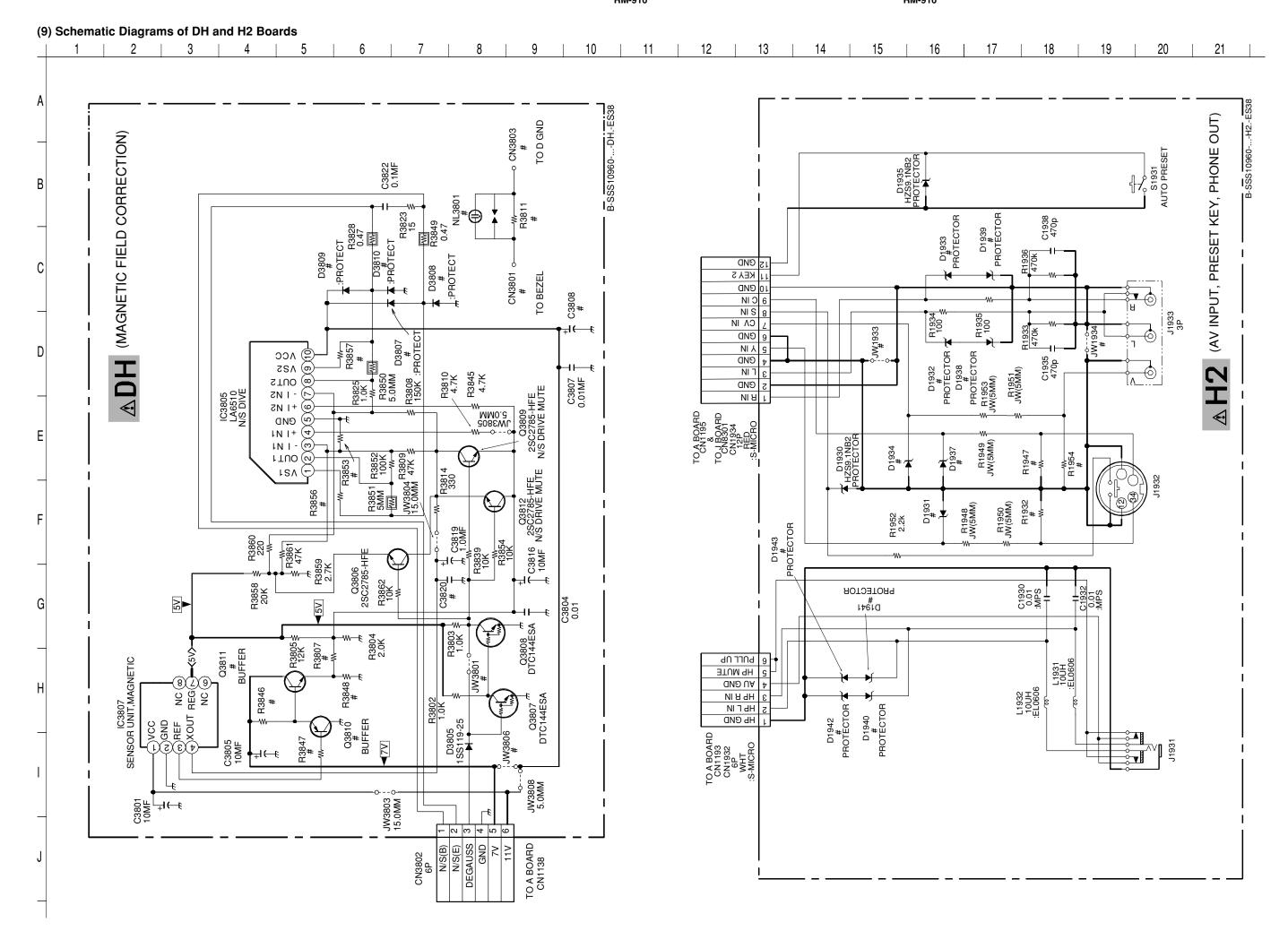


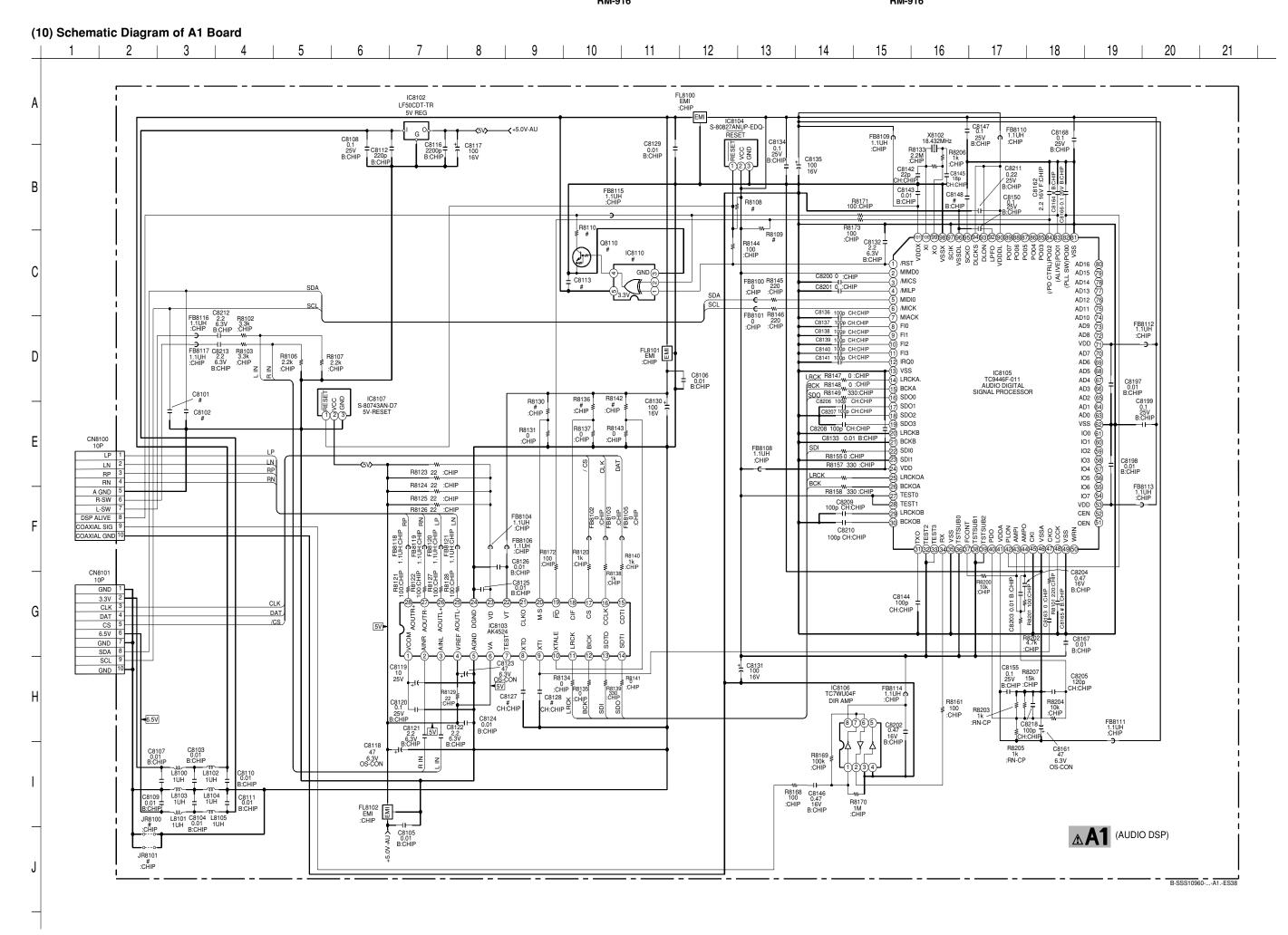
(6) Schematic Diagram of J Board 8 10 11 12 | 13 | 15 16 | 17 | 18 | 19 | 20 | 21 | 14 JR8305 :CHIP R8339 D8303 4.7k RD9.1SB :CHIP PROTECT R8343 D8304 RD9.1SB CHIP PROTECT R8310 R8324 C8522 R8340 RD9.1SB 75 0 16V 4.7k CHIP CHIP F.CHIP CHIP PROTECT R8470 6.8k :CHIP C8305 R8311 C8323 R8341 D8307 RD9.1SB CHCHIP F.CHIP CHIP PROTECT | CHIP | D8312 16V PROTECT C8319 D8312 PROTECT C8319 D8313 RD9.1SB PROTECT C8319 D8313 RD9.1SB PROTECT F:CHIP PROTECT D8312 RD9.1SB PROTECT R8349 1k :CHIP D8316 STZ6.8N-T146 PROTECT CN8201 # WHT :S-MICRO R8319 75 :CHIP R8577 R8553
C8453 :CHIP :CHIP :CHIP : CHIP : 3508 :CHIP : CHIP : (YCT, COMBFILTER VIDEO AUDIO-IN/OUT) CN8304 50P :BTOB

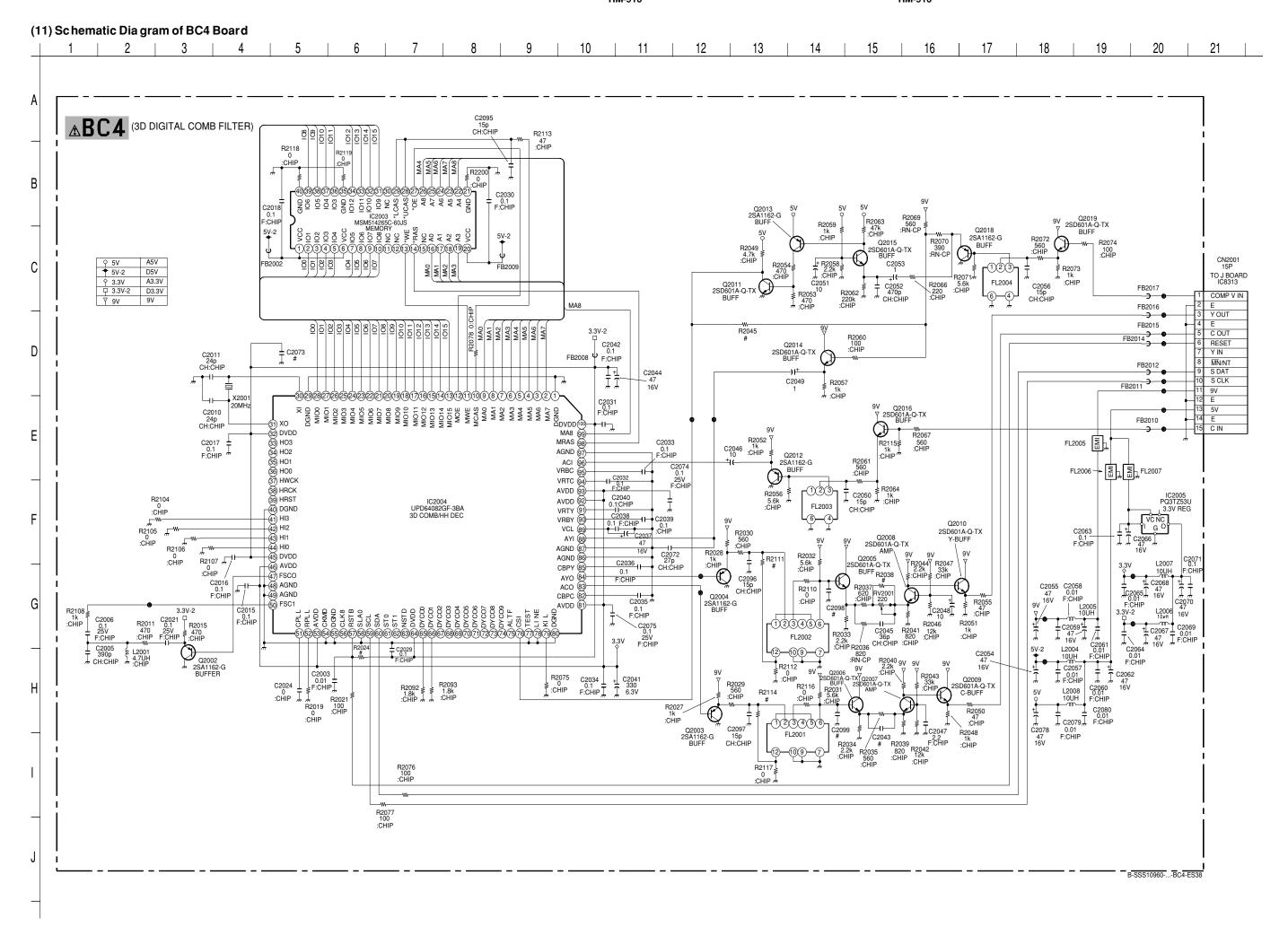


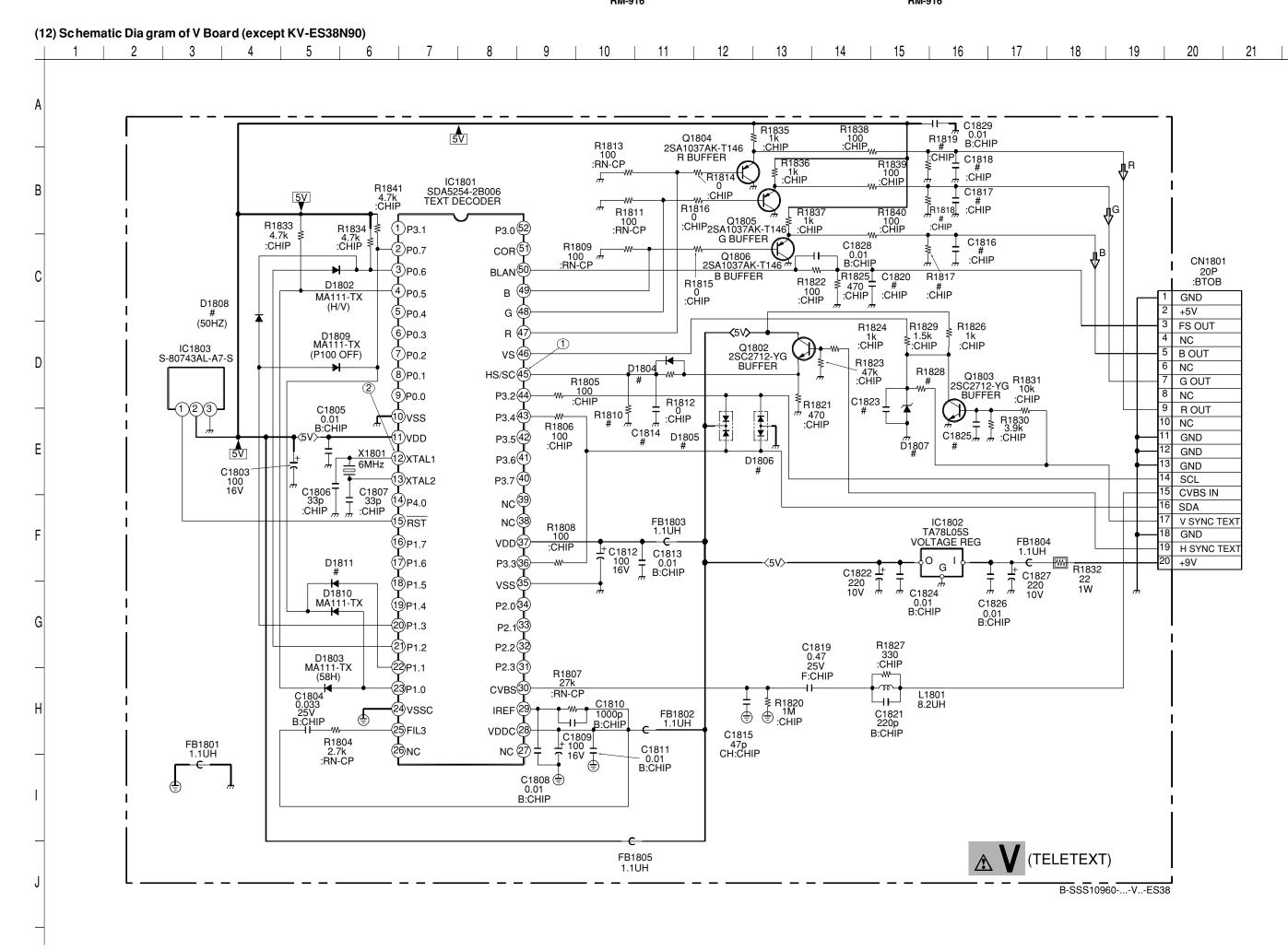
21



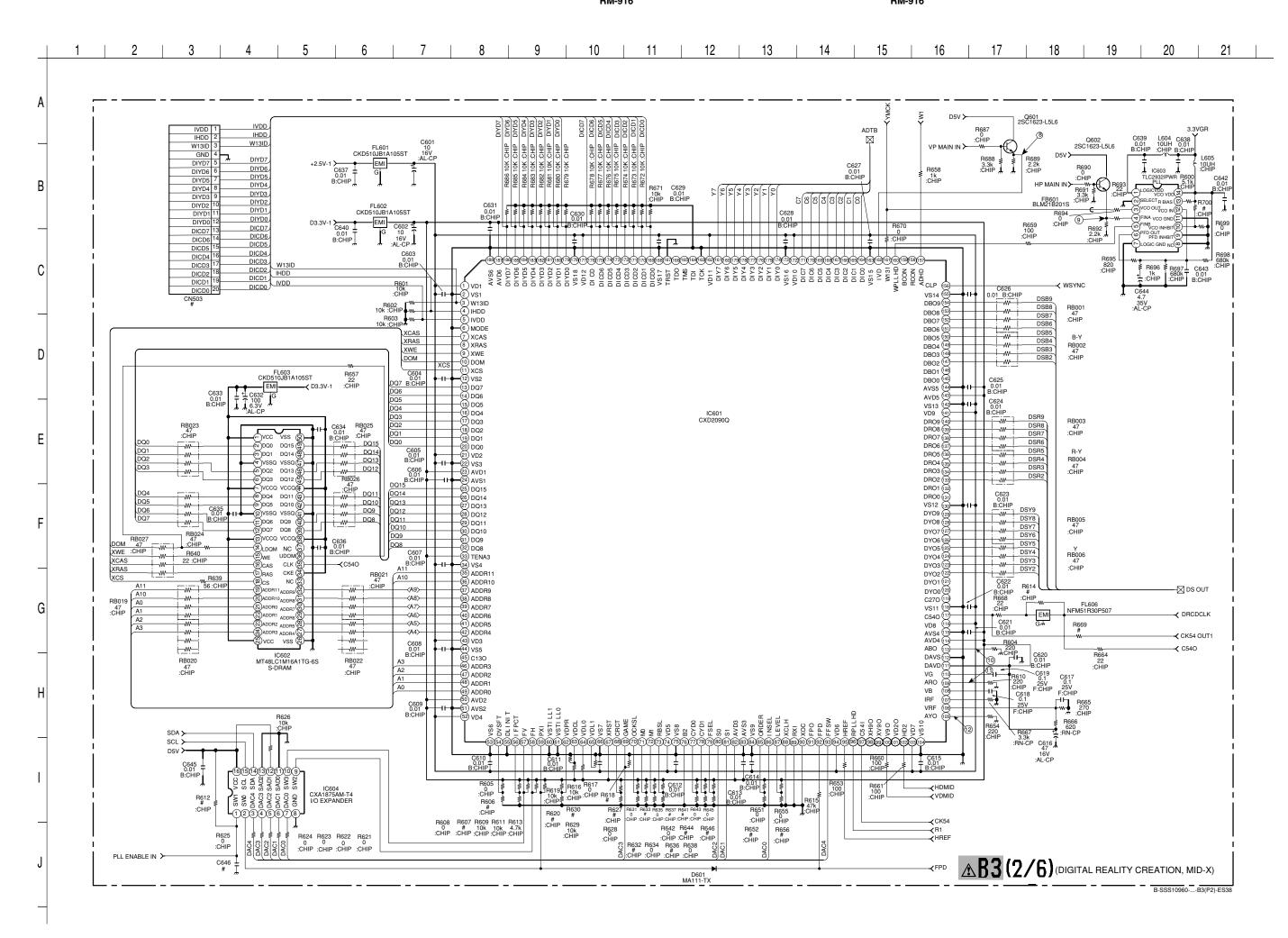


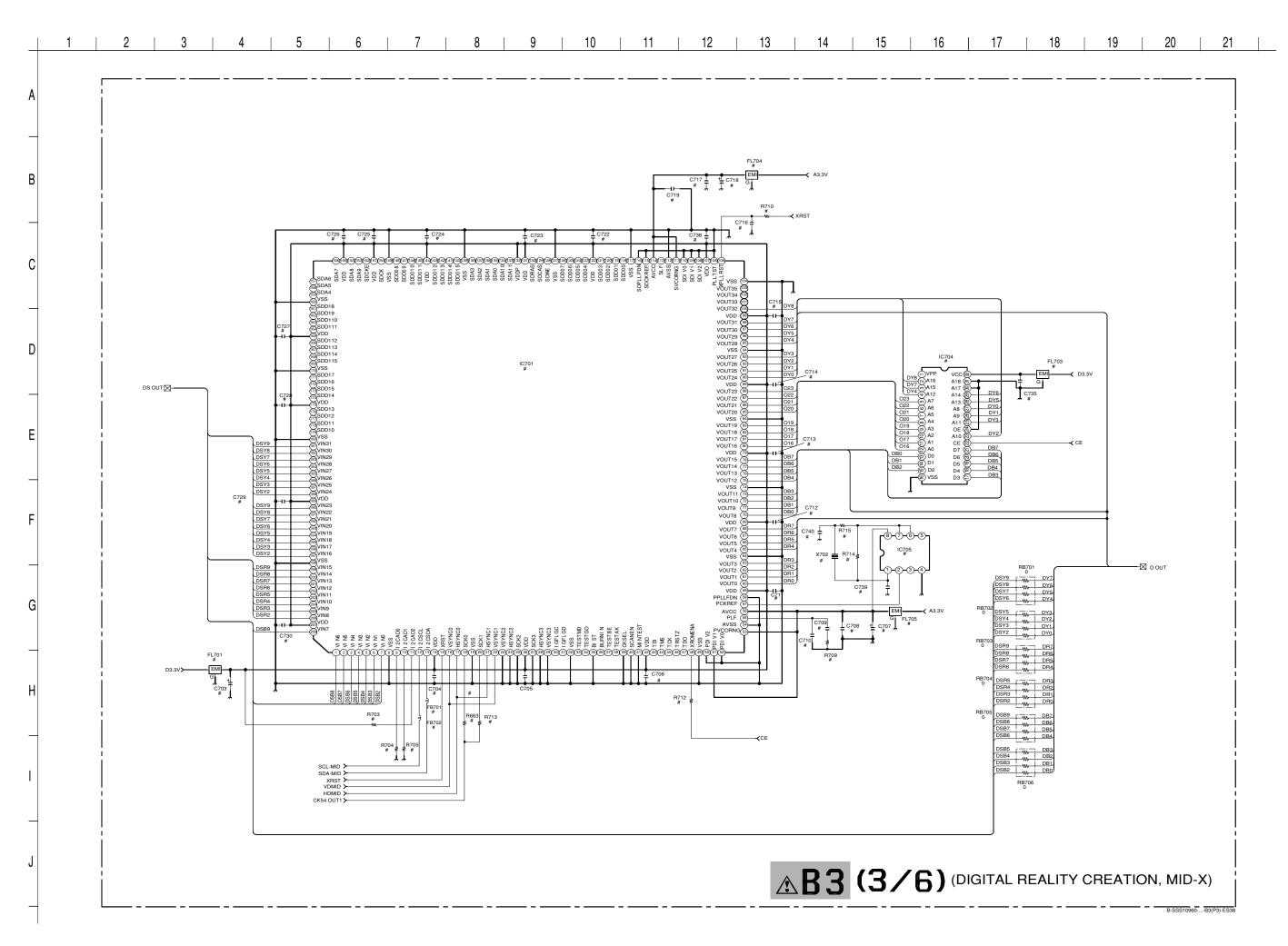


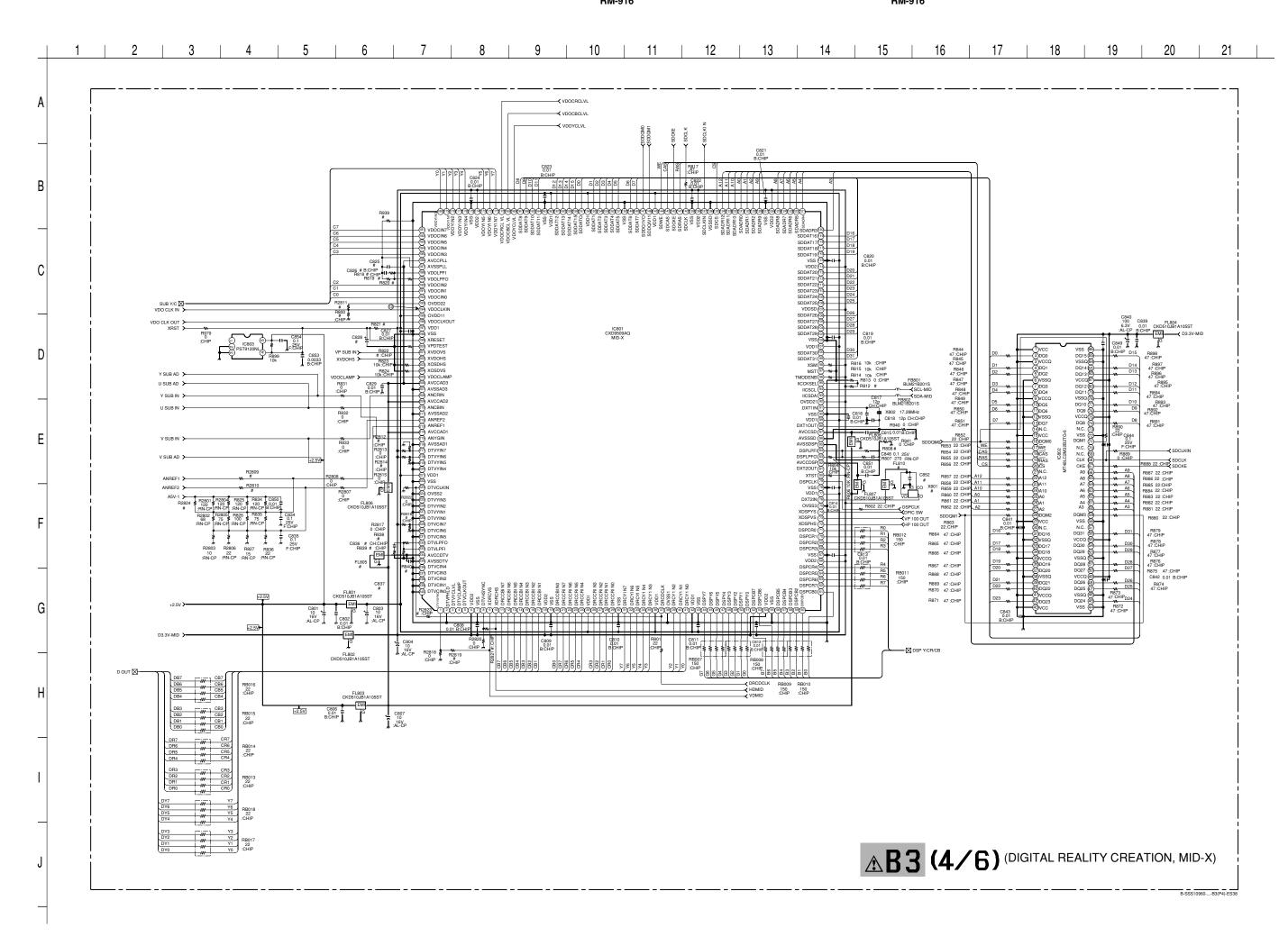


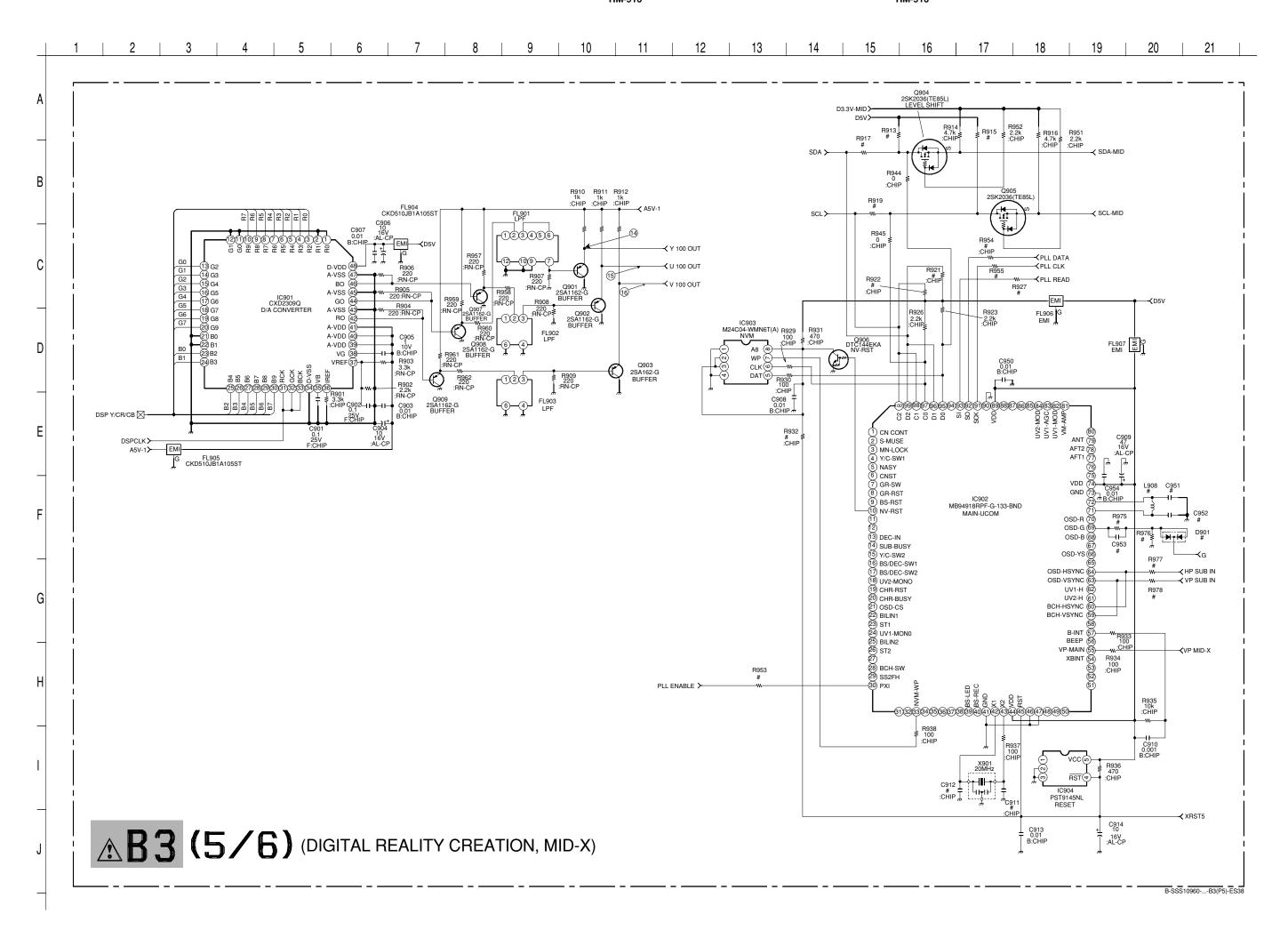


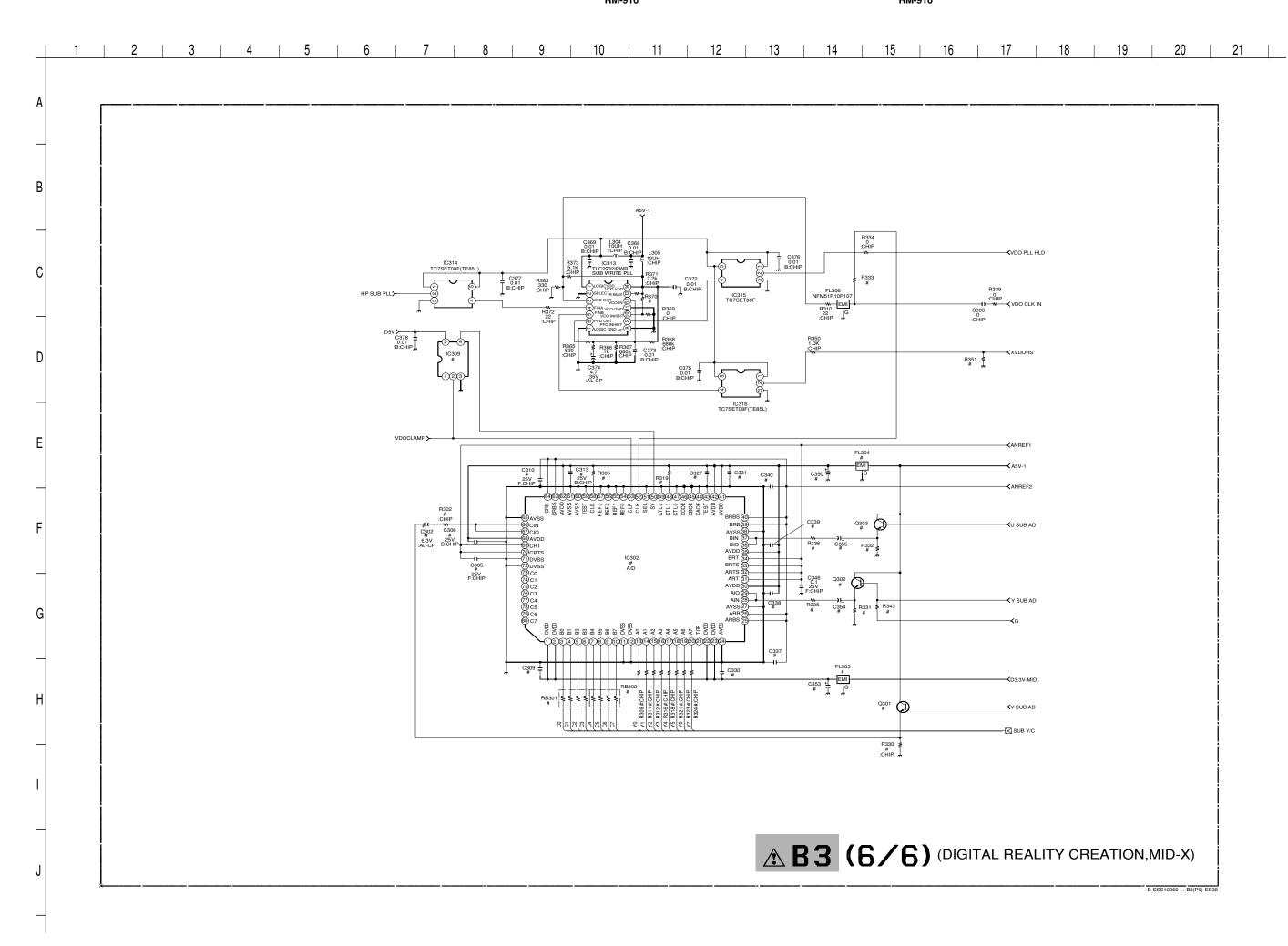
(13) Schematic Dia gram of B3 Board ▲B3 (1/6) (DIGITAL REALITY CREATION, MID-X)











A Board * Mark List

	KV-ES38M31	KV-ES38M61	KV-ES38M90	KV-ES38M91
CN1118	20P	20P	#	20P

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

DH Board * Mark List

	KV-ES38M31	KV-ES38M61	KV-ES38M90	KV-ES38M91
R3805	2K :RN	1.5K :RN	1.2K :RN	1.2K :RN
R3858	20K :RN	18K :RN	18K :RN	18K :RN
R3859	1K :RN	1.5K :RN	2.4K :RN	2.4K :RN

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

D Board * Mark List

	KV-ES38M31	KV-ES38M61	KV-ES38M90	KV-ES38M91
T6803	NX-4601//J1B4	NX-4601//J1J4	NX-4601//J1J4	NX-4601//J1J4

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

7-3. VOLTAGE MEASUREMENT

A BOARD VOLTAGE LIST

Ref	D VOLTAC Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC001	1 2	5.0	IC003	1	0		6	4.5
	3	0 0.1		2 3	0		7 8	4.5 9.0
	4	<[<u>5.0</u>]>(0)		4	0	IC2200	1	4.5
	5 6	5.0 0		5 6	5.0		2	0
	7	0.3		7	5.0 0		3 4	4.4 0
	8	0.3		8	5.0		5	4.4
	9	<[<u>0</u>]>(5.0)	IC100	1	4.8		6	0
	10 11	<[<u>5.0]</u> >(0) <[<u>0]</u> >(2.4)		2 3	4.8 0		7 8	4.5 9.0
	12	<[<u>0</u>]>(3.2)	IC1201	1	4.4	IC2600	I	12.1
	13	<[<u>0</u>]>(5.0)	101201	2 3	9.0	102000	Ğ	0
	14 15	<[<u>0]</u> >(5.0)		3 4	0		0	9.0
	16	<[3.2]>(0.2)		5	4.4 4.4	IC2601	I G	6.8 0
	17	<[2.5]>(2.0)		6	0		0	5.0
	18 19	<[2.6]>(0) <[<u>5.0]</u> >(0)		7	4.4	IC2604	1	3.3
	20	0		8 9	0 4.4		2	2.5
	21	0		10	0		3 4	0 1.2
	22 23	<[<u>0]</u> >(5.0)		11	4.4		5	3.3
	23	0		12 13	4.4 4.4	Q001	В	0
	25	0		14	4.4		C	0
	26 27	<[0]>(5.0)		15	4.4	Q002	E B	5.0 5.0
	28	<[<u>0]</u> >(0.6)		16	4.4	Q002	C	0
	29	<[2.3]>(0)		17 18	4.4 4.4		Е	0
	30	<[<u>0</u>]>(5.0)		19	4.3	Q101	В	8.9
	31 32	0		20	4.4		C E	2.1 2.8
	33	0	IC1203	1 2	-3.3 -15.8	Q301	В	0
	34	0		3	*		C	12.0
	35 36	<[<u>5.0]</u> >(0)		4	-0	0212	E	11.6
	37	0		5 6	-16.6 -5.3	Q313	B C	11.6 0
	38	<[<u>2.6]</u> >(0)		7	-3.3		E	0
	39 40	<[<u>2.6]</u> >(0) <[<u>4.8]</u> >(0)		8	-18.3	Q1205	В	0
	40	5.0		9	-16.1		C	0
	42	0		10 11	7.4 19.1	Q1206	E B	0.1
	43 44	0.1		12	0	Q1200	C	0.1
	45	0.1 0		13	0		E	0
	46	0		14 15	0	Q1207	В	5.5
	47 48	<[5.0]>(0)	IC1204	1	0		C E	0
	48 49	<[<u>4.0</u>]>(4.5) <[<u>5.0</u>]>(4.3)		2	-8.0	Q1209	В	0
	50	<[<u>4.5]</u> >(3.9)		3 4	9.9 0	-	C	0
	51	0		5	0	01210	E	0
	52 53	<[<u>2.4]</u> >(0)		5 6	-15.9	Q1210	B C	0 0
	54	0		7 8	0		E	0
	55	0		8 9	-19.0 0	Q1211	В	0
	56 57	0 0.1		10	5.9		C	0
	58	0.1		11	19.1	Q2200	E B	0
	59	0		12 13	-8.0 19.1	Q2200	C	0
	60 61	0		13	-19.0		Е	0
	62	0 <[<u>0]</u> >(4.5)		15	-19.0	Q2201	В	0
	63	0.3	IC1205	1	4.5		C E	0
ICCCC	64	<[4.9]>(0)		2 3	0	Q3300	В	3.1
IC002	1 2	<[<u>0]</u> >(0.5) 5.0		4	0		C	8.9 8.3
				5	4.5		E	

A1 BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC8102	I	3.1		16	0		65	3.2
	G	0		17	0		66	0
	0	5.0		18	0		67	3.2
IC8103	1	2.5		19	0		68	0
	2	2.5		20	0		69	0
	3	2.5		21	0		70	3.2
	4	0		22	0.7		71	3.2
	5	0		23	0		72	3.2
	6	4.9		24	3.2		73	3.2
	7	0		25	0		74	3.2
	8	1.4		26	0		75 76	0
	9	1.4		27	3.2		76	0
	10	3.2		28	3.2		77	3.2
	11	0		29	0		78	3.2
	12	1.6		30	0		79	0
	13	1.2		31	0		80	0
	14	1.2		32 33	3.2 3.2		81	0
	15	4.9		33	0.3		82	0
	16	2.4		35	0.3		83	0
	17	4.9		36	3.2		84 85	0 0
	18	0		37	1.6		86	0
	19	0		38	3.2		87	0
	20	3.2		39	3.2		88	0
	21	0		40	1.6		89	3.2
	22	0		41	3.2		90	3.2
	23	4.9		42	0		90	0.9
	24	0		43	2.9		92	3.2
	25	2.5		44	0		93	3.2
	26	2.5		45	0		94	0
	27	2.4		46	0		95	0
	28	2.4		47	0		96	0
IC8104	1	2.2		48	0		97	0
	2	3.2		49	0		98	1.3
	3	0		50	3.2		99	1.4
IC8105	1	3.2		51	0		100	3.3
	2	3.2		52	3.2	IC8106	1	1.7
	3	0		53	3.2	100100	2	0.3
	4	0		54	3.2		3	0.1
	5	4.4		55	3.2		4	0
	6	4.5		56	3.2		5	3.2
	7	3.2		57	3.2		6	1.9
	8	3.2		58	3.2		7	1.9
	9	3.2		59	3.2		8	3.2
	10	3.2 3.2		60	3.2	IC8107	1	-3.6
	11 12	0		61	3.2	100107	2	1.3
	13	0		62	0		3	0
	13	0		63	0			
	15	0		64	3.2			
	15	l U						

B3(1/5) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC302	1 2	0 3.2		68 69	4.7 1.9	IC311	I G	8.9 0
	3	1.3		70	1.9		Ō	5
	4	1.3		71	0	IC501	1	0
	5 6	1.3 1.3		72 73	0 0.1		2 3	0
	7	1.3		74	0.1		3 4	0 0
	8	1.3		75	0		5	0
	9	1.3		76	0		6	1.1
	10 11	1.3 0		77 78	0 0.1		7	1.1
	12	0		78 79	0.1		8 9	1.0 0.8
	13	0.5		80	0.1		10	1.5
	14	0.5	IC303	1	4.9		11	0
	15 16	0.5 0.5		2 3	0		12	1.6
	17	0.5		4	0		13 14	1.4 3.2
	18	-0.5		5	0		15	0
	19	0.6		6	1.7		16	3.2
	20 21	0 1.3		7	4.4		17	1.4
	22	3.2		8 9	3.7 0.2		18 19	1.6 1.4
	23	3.2		10	4.9		20	1.6
	24	0		11	0		21	1.8
	25 26	0.3 0.3		12 13	0 4.9		22	1.6
	27	0		13	4.9 4.9		23 24	1.7 1.6
	28	0.1		15	2.2		25	0
	29	0.1		16	2.7		26	4.7
	30 31	4.7 1.9		17	4.9		27	2.4
	32	1.9		18 19	4.9 0		28 29	0 3.3
	33	1.9		20	0		30	0
	34	1.9		21	0		31	0
	35 36	4.7 4.1		22	0.1		32	0
	37	4.1		23 24	1.4 0.3		33 34	1.4 0
	38	0		25	0.5		35	3.2
	39	0.3		26	4.9		36	1.4
	40 41	0.3 4.7		27	0		37	0
	42	4.7		28 29	4.9 4.9		38 39	0 0
	43	0		30	0		40	0
	44	0		31	0		41	0
	45 46	0 0		32	0		42	0
	47	4.6		33 34	0 0		43 44	0 0
	48	0		35	0		45	4.7
	49	4.9		36	4.9		46	0
	50 51	0 1.5		37 38	0		47	0
	52	0		38 39	0 4.9		48 49	0 0.1
	53	0		40	0		50	0.1
	54	0		41	4.9		51	4.6
	55 56	0 0		42 43	0 0		52 53	4.6
	57	4.6		43 44	0 1.1		53 54	2.3 2.3
	58	0		45	1.8		55	-0.0
	59	0		46	0		56	1.4
	60 61	0 0		47 48	0 0		57 59	-0.1
	62	4.7	IC309	48 1	0		58 59	3.1 1.4
	63	0.3	10307	2	0		60	1.4
	64	0		3	0		61	3.2
	65 66	0 1		4 5	4.9		62	4.6 1.9
	. 00	1.1	1	١ ١	4.9	İ	63	1.9

B3(2/5) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC504	1	4.2		51	0		121	1.3
	2	0		52	2.3		122	0
	3	0		53	0		123	1.3
	4	0		54	3.2		124	1.4
	5	0		55	0		125	1.0
	6	0.3		56	0		126	1.1
	7	0		57	3.2		127	1.0
	8	0		58	3.2		128	1.0
	9	0		59	2.7		129	1.1
	10	0		60	0		130	0
	11	0		61	0		131	1.0
	12	1.4		62	0		132	1.1
	13	2.8		63	0		133	0
	14	4.2		64	3.0		134	1.5
IC505	1	0		65	0.4		135	0
	2	3.2		66	0		136	1.7
	3	0		67	3.2		137	1.6
	4	0		68	0		138	1.1
	5	0		69	0		139	0
IC601	1	2.3]	70	0		140	1.8
- 1	2	0		71	3.2		141	2.3
	3	Ö		72	0		142	0
	4	0		73	2.3		143	0
	5	0		74	0		144	0
	6	0		75	0		145	1.2
	7	3.1		76	0		146	1.2
	8	3.1		77	3.2		147	1.5
	9	3.1		78	3.2		148	0
	10	0.5		79	0		149	1.7
	11	3.1		80	0		150	2.0
	12	0		81	3.2		151	1.5
	13	1.3		82	0		152	0
	14			83	0		153	1.7
		1.4		84	3.2		154	1.4
	15	1.3		85	0.3		155	0
	16	1.1		86	3.2		156	0
	17	1.4		87	0		157	3.2
	18	1.5		88	0		158	3.2
	19	1.6		89	0			
	20	1.5					159	3.1
	21	0		90	0		160	1.3
	22	3.2		91	1.6		161	1.4
	23	0		92	3.0		162	0
	24	1.5		93	2.3		163	0
	25	1.2		94	1.6		164	1.6
	26	1.1		95	3.2		165	1.6
	27	1.1		96	1.8		166	1.6
	28	1.3		97	3.0		167	1.5
	29	1.4		98	3.2		168	1.6
	30	1.4		99	0		169	1.4
	31	1.4		100	0		170	1.5
	32	3.2		101	0		171	1.5
	33	0		102	0.2		172	2.3
	34	0		103	2.3		173	0
	35	0		104	0		174	1.4
	36	0		105	0.3		175	1.5
	37	0		106	1.0		176	1.7
	38	0		107	0.9		177	1.5
	39	0		108	0		178	0.7
	40	Ö		109	0.5		179	1.0
	41	Ö		110	2.0		180	1.2
	42	0		111	3.3		181	1.2
	43	2.3		112	0		182	2.4
	44	0		113	0.5		183	0
	45	1.3		114	3.2		184	3.3
				115	0		185	3.3
		1 //				1		
	46	0			0		186	
	46 47	0		116	0 1.5		186 187	0
	46 47 48	0		116 117	1.5		187	0 3.3
	46 47	0		116				0

B3(3/5) BOARD VOLTAGE LIST

Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208	0 0 0 0 0 0 2.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IC604	2 3 4 5 6 7 8 9 10 11 12 13 14	0 1.4 0 1.3 1.4 0 0 0 0 0 0 0 1.4 0 0 3.4 4.9 0 3.0 3.0 3.0		41 42 43 44 45 47 48 49 50 51 52 53 54 55 56 57 58 59	0 -0.6 -3.0 -2.0 -1.9 -1.8 -1.6 -1.6 1.2 1.6 1.5 3.1 -0.1 1.3 1.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3.2 1.5 1.6 0 1.7 1.5 0 1.2 0 0 0 0 0.5 3.2	IC801	6 7 8 9 10 11 12 13 14 15 16	0.4 0.3 0 0 3.2 0 4.9 0 4.5 4.4 4.9 0 0		60 121 122 123 124 125 126 127 128 129 130 131 132 133 134	1.3 0 2.5 0 1.6 0 0 0 2.4 0 0 0 1.6 1.6 2.7
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	0 0 0 0 0 0 0 0 0 0 0 0		6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	3.2 0 0 0 0.2 1.4 1.8 1.7 1.4 2.0 1.6 1.7 3.2 0 1.6 1.7		136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151	2.7 0 1.6 3.3 0 1.6 3.2 2.9 2.8 3.0 2.4 0 0 2.1 2.1 0 0.2 1.1
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	3.2 1.4 0.5 0 3.2 1.6 1.6 0 1.5 1.3 3.2 1.1 1.2 0 1.4 1.4		22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	1.5 1.3 1.7 2.4 1.7 1.5 1.4 1.5 0 1.0 1.1 -2.0 -1.9 -0.8 -2.0 -3.2 -1.9		152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169	0 0 1.0 0 1.3 1.5 2.1 1.3 0 0 0 2.0 1.2 0.7 0.1 2.0 1.7
	192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 20 3 4 4 5 6 6 7 7 8 8 9 9 10 11 11 12 2 2 3 3 3 4 4 4 5 6 6 7 7 8 8 8 9 9 9 1 1 1 1 1 2 1 2 2 3 3 3 3 3 3 3 3 3 3 3	192 0 193 0 194 0 195 0 196 0 197 2.3 198 0 199 0 200 0 201 0 202 0 203 0 204 0 205 0 206 0 207 3.2 208 0 1 3.2 20 0 207 3.2 208 0 1 3.2 2 1.5 3 1.6 4 0 5 1.7 6 1.5 7 0 8 1.2 9 0 10 0 11 0 12 0 13 0 14 0.	192	192	192	192	192

B3(4/5) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
	171	0		238	0		66	0
	172	0.6		239	0		67	2.9
	173	0.6		240	0	_	68	1.6
	174	0	IC802	1	3.2		69	0
	175	0		2	1.4		70	0
	176	0		3	3.3		71	0
	177	0		4	0.8		72	0
	178	0.5		5	0.5		73	0
	179	0.5		6	0		74	0
	180	0.5		7	1.7		75 76	3.2
	181	1.3		8	0		76	0.9
	182 183	1.3 0		9	0.2		77	1.1
	184	1.3		10	2.0		78 79	0 1.9
	185	1.3		11	0		80	1.9
	186	2.4		12	0		81	3.3
	187	0		13	0		82	1.7
	188	2.4		14	0		83	2.0
	189	2.4		15	0		84	0
	190	1.3		16	0		85	1.4
	191	0		17 18	3.0 2.8		86	0
	192	1.4		18	3.2	IC901	1	0
	193	3.2		20	2.7	10901	2	0
	194	1.5		20	0		3	1.3
	195	2.4		22	1.6		4	1.3
	196	1.6		23	0		5	0
	197	0		24	0		6	1.4
	198	0		25	0		7	0
	199	0		26	0		8	0
	200	0		27	2.4		9	0
	201	0		28	0		10	0
	202	0		29	3.2		11	0
	203	0		30	0		12	0
	204	0		31	1.5		13	1.3
	205	0		32	0		14	1.3
	206	0.4		33	1.4		15	0
	207	0		34	1.1		16	1.1
	208	1.2		35	3.2		17	1.1
	209	2.4		36	3.2		18	1
	210	1.2		37	1.7		19	0
	211	0		38	0		20	1.1
	212	1.2		39	1.2		21	0
	213	0		40	1.4		22	0
	214	2.4		41	3.2		23	0
	215	0		42	0.8		24	0
	216	0		43	3.2		25	1.5
	217	0		44	0		26	1.9
	218	0		45	0		27	1.5
	219	0		46	0		28	0
	220	0		47	0		29	1.5
	221	2.4		48	0		30	1.7
	222	0		49	0		31	1.2
	223	0		50	0		32	1.2
	224	0		51	1.9		33	1.2
	225	0		52	0		34	0
	226	0		53	1.4		35	0.9
	227	0		54	1.3		36	1.9
	228 229	0 0		55	0		37	1.9
	229	0		56	3.2		38	2.3
	230	0		57	0		39	4.7
	231	0.3		58	0		40	4.7
	232	0.3		59	0		41	4.7
	233	2.4		60	0		42	0.5
	234	0		61	2.4		43	0
	235	0		62	2.4		44	0.3
		0		63 64	1.9		45	0 0.5
			1	ı 6 4	1.6	1	46	. 05
	237	O		65	0		47	0

KV-ES38M31/ES38M61/ES38M90/ES38M91 RM-916

B3(5/5) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC902	1	0		60	0.1	Q502	В	0
	2 3	0		61	4.9		C	0
	3	0		62	4.9		Е	0
	4	0		63	0	Q503	В	0
	5	0		64	0.1		C	0
	6	0		65	0		Е	1.1
	7 8	0		66	0	Q510	В	0
	8 9	0 0		67 68	0 0		C	2.6
	10	0		69	0		Е	2
	11	0		70	0	Q511	В	0
	12	0		71	4.9		C	1.7
	13	ő		72	4.9		Е	1
	14	ő		73	0	Q512	В	4.7
	15	0		74	4.9		C	1.6
	16	0		75	0		Е	1
	17	0		76	0	Q513	В	4.7
	18	0		77	0		C	2
	19	0		78	0		Е	2
	20	0		79	0	Q514	В	4.7
	21	0		80	0		C	1.7
	22	0		81	0		Е	*
	23	4.9		82	0	Q515	В	4.7
	24	0		83	4.9		C	1.8
	25	0		84	4.9		Е	0
	26	0		85	1.1	Q517	В	4.9
	27 28	0		86 87	0 0		C	4.9
	29	4.9		88	0		E	4.2
	30	4.9		89	4.9	Q521	В	0
	31	0		90	0		C	2.6
	32	0		91	4.9	0.522	Е	1.9
	33	4.9		92	0	Q522	В	4.7
	34	0		93	2.2		С	3.1
	35	0		94	0	0.500	Е	2.5
	36	0		95	4.9	Q523	В	4.7
	37	0		96	4.9		C E	2.5
	38	0		97	4.9	0.601		1.9
	39	0		98	4.9	Q601	B C	0 0
	40	0		99	4.5		E	0
	41	0	7000	100	4.4	Q602	В	4.9
	42 43	2.3 2.3	IC903	1	0	Q002	C	0
	43	4.9		2	0		E	0
	45	4.9		3 4	4.9	Q903	В	0
	46	0			0 4.9	Q703	C	0.1
	47	0		5 6	4.9 4.9		E	0.5
	48	1.9		7	4.9	Q904	D	3.2
	49	2.4		8	0	Q 707	G	4.9
	50	0	IC904	1	0	1	S	3.2
	51	0	10,04		0	Q905	D	3.2
	52	0		2 3	0	2,03	G	4.9
	53	0		4	4.9		S	0
	54	0		5	4.9	Q906	В	4.9
	55	0	Q501	В	0	1 200	C	0
	56	0		C	0		E	0
	57	4.9		E	ő			
	58	0			-	1		
	59	0						

D1 BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC6101	1	3.4		7	1.8	Q6103	В	4.1
	2	1.6		8	2.9		C	4.2
	3	0		9	1.2		Е	0
	4	0		10	0.5	Q6104	В	5.2
	5	2.1		11	1.6		C	0.5
	6	0		12	2.3		Е	0
	7	2.6		13	5.0	Q6105	В	5.0
10(102	8	5.0		14	0		C	3.4
IC6102	1	8.8		15	5.0 5.0		Е	2.9
	2	4.3		16 17	5.0	Q6106	В	-3.3
	3 4	4.4 4.9		18	0		C	3.1
	5	4.9 0		19	0		Е	0
	6	1.6		20	4.1	Q6107	В	12.4
	7	1.7		21	4.5		C	12.0
	8	4.8		22	5.0		Е	5.8
IC6103	1	8.8	1	23	0	Q6118	В	3.4
100103		3.1		24	0		C	0
	2 3	3.4	IC6351	1	8.8		Е	0
	4	1.9	100001	2	0.3	Q6125	В	8.8
	5	0		3	4.4		C	2.1
	6	1.7		4	3.8		Е	2.2
	7	1.7		5	0	Q6126	В	0
	8	3.4		6	4.6		C	2.2
IC6104	1	1.9		7	4.2		Е	2.1
	2	2.1		8	5.1	Q6128	В	8.8
	3	-15.8	IC6353	I	12.4		C	1.4
	4	1.4		G	0		Е	3.2
	5	6.9		0	5.0	Q6201	В	4.5
IC6105	1	6.6	IC6354	1	4.4		C	0.4
	2 3	4.2		2 3	0		Е	0
	3	4.4		3	8.8	Q6202	В	2.8
	4	0		4	0		C	0.7
	5	1.3		5	4.4		Е	0
	6	1.3		6	4.4 0	Q6350	В	1.7
	7 8	0.2 8.8		7 8	3.9		C	0.4
IC(10(IC6356		-3.4	06256	E	0
IC6106	1	0	100000	1	-3.4 -3.4	Q6356	В	1.8
	2 3	8.9		2 3	-3.4		C	0.3
IC6108	1	2.7	-		-3.2	06405	E	0
100108	2	2.7 4.9		4 5	-15.9	Q6405	В	0
	3	0.3		6	0		C E	4.4
	4	0.3 4.7		7	-3.3	06455		3.8
	5	3.6		8	-3.2	Q6455	В	8.8
	6	1.9		9	-3.3		C E	1.7 1.1
	Ü	1.,		10	11.9		E	1.1

C BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC9001	1	<[0]>(3.4)		6	<[<u>0.1</u>]>(200)		8	0
	2	<[<u>0</u>]>(11.7)		7	<[<u>1.2</u>]>(128)		10	152.0
	3	<[<u>0]</u> >(3.3)		8	<[<u>0</u>]>(153.5)		11	153.6
	4	0		9	<[<u>0</u>]>(128)		12	157.0
	5	<[<u>0]</u> >(8.8)	IC9003	1	<[0]>(3.4)	Q9001	В	0
	6	<[<u>0.1]</u> >(200)		2	<[0]>(11.7)	,	С	<[<u>0</u>]>(4.5)
	7	<[<u>0.8]</u> >(14.7)		3	<[0]>(3.3)		Е	<[<u>0]</u> >(8.2)
	8	<[<u>0.5]</u> >(15.6)		4	0	O9009	В	0
	9	<[<u>1.0</u>]>(14.7)		5	<[0]>(8.9)	`	С	0
IC9002	1	<[<u>0</u>]>(3.4)		6	<[<u>0.1</u>]>(200)		Е	<[0]>(2.9)
	2	<[<u>0]</u> >(11.7)		7	<[<u>1.2</u>]>(138.6)	Q9010	В	0
	3	<[<u>0]</u> >(3.3)		8	<[<u>0.6</u>]>(152.4)	() ****	C	0
	4	0		9	<[<u>1.6</u>]>(138.6)		E	<[0]>(3.4)
	5	<[<u>0]</u> >(8.8)	J9001	5	317	O9011	В	0
				7	0	*	Č	<[0]>(3.8)
							E	<[0]>(3.2)

KV-ES38M31/ES38M61/ES38M90/ES38M91 RM-916

D BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC6602	1	0		2 3	14.0		C	0
	2	6.0		3	-13.1		Е	6.5
	3	4.2		4	-15.8	Q6804	В	6.6
	4	0.0		5 6	-0.5		C	8.8
	5 6	18.6		6	14.6		Е	6.5
	7	0.0 6.2	10(001	7	1.3	Q6805	В	77.5
	8	4.0	IC6801	1	6.6		C	-0.3
IC6603	1	276		2 3	1.4 2.2		Е	0
100003	2	127		4	0	Q6806	В	-0.3
	3	4.3		5	2.9		C	65.2
	4	0.4		5 6	6.6		Е	0
	5	4.8		7	0.0	Q6807	В	-0
	6	2.2		8	8.8		C	242
	7	3.7	Q6602	В	0.3		Е	242
	8	3.7	Q0002	C	12.0	Q6808	В	240
	9	0		Ë	0.0		C	240
	10	0	Q6603	В	11.2		Е	240
	11	0	20003	C	11.2	Q6809	В	8.3
	12	0		E	12.0		C	3.4
	13	0	Q6604	В	17.7		Е	0
	14	18.5	20004	C	18.4	Q6810	В	135
	15	10.9		E	18.6		C	0
	16	4.9	Q6605	В	0.7		Е	0
	17	0.1	Q0003	C	0.0	Q6811	В	8.8
	18	133		E	0.0		C	-0
	19	123	Q6606	В	17.9		Е	-0
IC6604	1	0	Quouu	C	18.5	Q6812	В	-0.8
	2	0		E	18.6		C	8.6
	3	0	Q6609	В	5.0		Е	0
	4	5.8	Quuo	C	5.0	Q6813	В	5.8
	5 6	269 *		Ë	0		C	0.4
	7	0	Q6610	В	0.5		Е	0
	8	0	20010	C	5.0	Q6814	В	2.9
IC6606	I	9.6		Ë	0.2		C	8.8
10000	G	0	Q6611	В	0		E	8.8
	o o	5.0	Quoii	C	2.9	Q6815	В	135
IC6804	I	12.2		Ë	0		C	135
10004	G	0	Q6612	В	2.9		Е	134
	0	8.8	20012		0	Q6816	В	0.5
IC6805	I	14.6	1	C E	ő		C	0
10000	G	0	Q6613	В	0	0.601=	E	0
	0	11.9		C	4.1	Q6817	В	0.5
IC6806	I	8.1	†	E	0		C	0
10000	G	0.1	Q6614	В	0	06010	E	0
	VC	6.2		C	-75.6	Q6818	В	0
	0	21.2		E	0		C	3.2
IC6607	1	134	Q6615	В	0.4	06010	E	0
100007	2	2.4	(0000	C	18.6	Q6819	В	8.8
	3	10.7		E	0.0		C	-10.9
	4	0	Q6800	В	14.6	06920	E	-0
IC6608	1	18.5	1	C	0.3	Q6820	В	0.1
	2	2.9		E	0.9		C	0.2 0
	3	4.9	Q6801	В	0.2	06921	E	
	4	0.0		Č	11.1	Q6821	В	-10.9
	5	18.6		Е	-0.5		С	0
	6	0.0	Q6802	В	203	-	Е	-0.1
	7	3.1	`	C	136			
	8	2.3]	E	136			
IC6800	1	1.3	Q6803	В	6.6	1		
	1			_				

E BOARD VOLTAGE LIST

IC4201	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC4301	1	3.7		60	0	Q4319	В	1.9
	2 3	-0 -0		61	4.5		C	6.9
	4	-0 4.7		62 63	4.1 4.2	0.4900	E	6.3 -0
	5	3.4		64	3.5	Q4800	B C	-0 -1.7
	6	3.4	IC4800	1	0.2		E	-1.7 -0
	7	7.6	104000	2	4.4	Q4801	В	3.2
	8	-0		3	4.6	Q4001	C	2.2
	9	-0		4	0		E	0
	10	0.4		5	4.6	Q4802	В	4.4
	11	1.7		6	3.2	Q 1002	C	1.7
	12	8.9		7	0.3		E	0
	13 14	-0 5.0		8	8.9	Q4803	В	8.9
	15	2.5	IC4801	1	0.2		C	0
	16	0		2	4.5		Е	4.7
	17	-0		3	4.5	Q4804	В	-0
	18	2.6		4	0 4.5		C	0.3
	19	4.1		5 6	3.2		Е	-0
	20	0		7	0.3	Q4805	В	-0
	21	6.0		8	8.9		C	0
	22	1.5	IC4802	1	0		Е	-0
	23	5.3	10.002	2	4.4	Q4806	В	3.2
	24	-0 5.1		3	1.7		C	0
	25 26	5.1 2.6		4	1.7	0.4005	Е	0
	27	3.7		5	0	Q4807	В	4.2
	28	2.8		6	4.3		C E	0.2 -0
	29	4.1		7	4.3	0.4909		-0 -0
	30	2.4		8	4.9	Q4808	B C	2.0
	31	3.3	IC4803	1	7.7 *		E	3.2
	32	8.9		2 3	0.4	Q4809	В	-0
	33	-0		4	0.4	Q 1007	C	2.0
	34	4.6		5	0.8		Ē	3.1
	35	4.7		6	0.7	Q4810	В	8.9
	36 37	4.7		7	6.6	(C	-0.1
	38	8.9 0		8	8.9		Е	-0.1
	39	4.8	Q4304	В	8.9	Q4811	В	8.9
	40	4.8		C	6.9		C	0
	41	4.8		Е	6.2		Е	0.3
	42	-0	Q4307	В	-0	Q4812	В	1.4
	43	-0		C	3.0		C	-0
	44	-0		Е	2.3	0 (2.1	Е	-0
	45	6.3	Q4308	В	-0	Q4813	В	0
	46	8.9		С	3.4		C	0.5
	47 48	8.9 5.2	04210	E	2.8	04014	E	1.2
	48	2.4	Q4310	В	-0 2.2	Q4814	В	0
	50	3.9		C E	3.2 2.6		C E	1.5 1.6
	51	-0	04215	В	0	04915		0
	52	6.1	Q4315	C	1.5	Q4815	B C	1.5
	53	5.8		E	0		E	0
	54	5.8	Q4316	В	4.9	Q4816	В	-0
			1 1010			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	55	-0		C	()		C	0.6
	55 56	5.8		C E	0		C E	0.6 0
	55 56 57	5.8 5.8		Е	0	O4817	Е	0
	55 56	5.8	Q4317	C E B C		Q4817		

J(1/2) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC8302	1	0.3	IC8306	1	-1.3		20	-1.2
	2 3	0.8		2	-1.6		21	-1.6
	4	0.3 0.8		3 4	-2.2		22	0
	5	0.8		5	-3.4 -1.2		23 24	-1.7
	6	-3.3		6	1.3		25	0 -0.7
	7	1.3		7	-1.0		26	-0.7
	8	0.3		8	-3.6		27	-0.3
	9	0		9	-3.2		28	-3.6
	10	0.9		10	-2.8		29	[
	11	0.8		11	-1.2		30	-0.7
	12	0.8		12	1.3		31	-1.5
	13	-3.3		13	0.9		32	1.3
	14	1.3		14	0.8		33	0.6
	15	0.3		15	0		34	-0.6
	16	0		16	0		35	-0.6
	17	0.9		17	0		36	0
	18	0		18	0		37	-2.5
	19	0.8		19	-2.2		38	0.3
	20	-3.3		20	-1.1		39	1.9
	21	1.3		21	-1.9		40	-0.2
	22	0.3		22	-1.7		41	-0.2
	24	0.3		23	1.8		42	1.0
	25 26	0.8 0.8		24	-3.6		43	-1.9
	27	-3.3		25 26	-0.8 0.9		44	-1.7
	28	1.3		27			45 46	1.1
	29	0.8		28	-0.8 -3.6		46 47	-0.7
	30	1.0		29	-0.8		48	-0.7 1.8
	31	0		30	-0.8	100200		
	32	-3.6		31	-1.6	IC8309	1 2	0.5 0
	33	0.8		32	1.3		3	-0.8
	34	*		33	-0.8			0.8
	35	-3.6		34	-0.7		4 5	0
	36	0.2		35	-0.7		6	0
	37	0.8		36	-3.6		7	0
	38	0.8		37	-2.5		8	Ö
	39	0.1		38	0.3	IC8310	1	-2.8
	40	0.8		39	1.7	100310	2	-3.6
	41	1.7		40	3.2		3	-0
	42	5.4		41	2.2		3 4	-0
	43	0.8		42	0		5	-0
	44	0.6		43	1.7		6	-1.5
	47	0.8		44	2.2		7	-3.6
	48	-3.6		45	4.9		8	1.4
	49	1.1		46	2.3		9	2.1
	50 51	0.8 0.8		47 48	3.7		10	-3.6
	52	0.8	100200	48	1.7		11	[
	53	0.8	IC8308	1	0.8		12	-3.6
	54	0.7		2	-1.0		13	-3.6
	55	0.1		3 4	-1.2 -3.4		14	0.8
	56	-0.3		4 5	-3.4 1.3		15	1.4
	57	-3.6		6	0		16	-0.9
	58	0.7		7	-1.0		17	-0.8
	59	0.8		8	-3.6		18 19	-3.6
	60	1.1		9	3.2		20	-0.5 4.6
	61	0.8		10	0.7		20	4.0 -1.1
	62	0.8		11	-0.5		22	-1.1 0
	63	0.6		12	0		23	-3.6
	64	0.8		13	1.3		23 24	-3.6 -3.6
	I	5.0	1	14	0	IC8312		
IC8304				15	-3.6	100312	1 2	-3.6 -3.2
IC8304	G	0						
IC8304	G O	0		16	-3.6		3	
				16 17			3	1.3
IC8304 IC8305	0	0	_	16	-3.6		3 4 5	

J(2/2) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
Q8302	В	5.4		Е	-3.6		С	0.9
	C	0.8	Q8328	В	1.8		Е	0
	Е	0.2] `	C	-3.4	Q8343	В	0.7
Q8303	В	5.4		Е	-3.6	`	C	0
	C	0.6	Q8329	В	2.0	1	Е	4.8
	Е	0		C	-1.1	Q8346	В	0
Q8304	В	5.4		Е	-1.8		C	5.4
	C	0.6	Q8330	В	5.4	1	Е	4.7
	Е	0		C	2.0	Q8347	В	4.7
Q8306	В	5.4	1	Е	1.4	`	C	0
	C	1.7	Q8331	В	2.7	1	Е	-1.1
	Е	1.1		C	-1.8	Q8348	В	0
Q8308	В	5.4	1	E	-0		C	0
	C	0.1	Q8332	В	5.4	1	Е	0
	Е	0.4	(C	2.7	Q8349	В	4.7
Q8309	В	5.4	1	Е	2.1		C	-0.5
	C	0.8	Q8333	В	2.0		Е	-1.1
	Е	0.2	(3222	C	1.5	Q8350	В	0.7
Q8310	В	-0		Е	2.1	`	C	0
`	C	-3.5	Q8334	В	5.4	1	Е	0
	Е	-3.5	(322)	C	2.9	Q8351	В	4.7
Q8325	В	5.4	1	Е	2.2		C	-0.9
	C	0	Q8335	В	2.0	1	Е	1.5
	Е	0	Queen	C	1.5	Q8352	В	0
Q8326	В	-0	1	Ē	2.2	(C	5.4
	C	-3.3	Q8336	В	5.4	1	E	4.7
	E	0	20330	C	2.9	Q8355	В	5.4
Q8327	В	-3.4	1	E	2.3		C	0.1
	C	0	Q8342	В	4.8	-	Ē	0.4

DH BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC3805	1	3.4	Q3807	В	0
	2	4.1		C	5.0
	3	2.8		Е	0
	4	2.8	Q3808	В	5.0
	5	0		C	0
	6	0		Е	0
	7	2.8	Q3809	В	0
	8	2.8		C	2.0
	9	2.4		Е	2.8
	10	6.7	Q3810	В	2.5
IC3807	1	12.2		C	0
	2	0		Е	3.2
	3	2.5	Q3811	В	3.2
	4	2.2	_	C	6.8
	6	0		Е	2.5
	7 8	5.4	Q3812	В	0
	δ	0	`	C	2.0
				Е	2.8

KV-ES38M31/ES38M61/ES38M90/ES38M91

VM BOARD VOLTAGE LIST

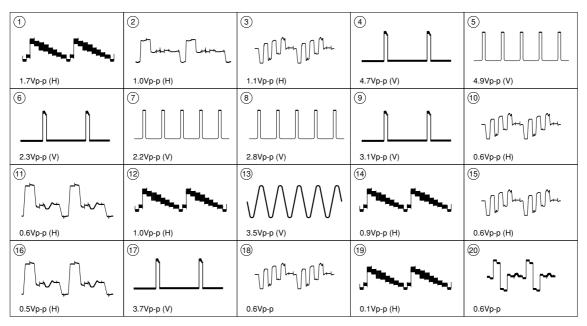
Ref	Pin No	Voltage[v]
Q5400	В	1.9
	C	8
	Е	1.2
Q5401	В	5.0
	C	2.0
	Е	1.4
Q5402	В	5.5
	C	8.8
	Е	5.8
Q5403	В	5.9
	C	8.9
	Е	5.7
Q5404	В	5.0
	C	0
	Е	5.5
Q5405	В	5.5
	C	0
	Е	5.7
Q5406	В	1.3
	C	0.7
	Е	0.9
Q5407	В	134
	C	57
	Е	134

V BOARD VOLTAGE LIST

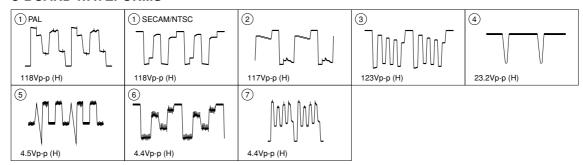
Ref	Pin No	Voltage[v]	Ref	Pin No	Voltage[v]
IC1801	1	0		32	0
	2	0.1		33	0
	3	4.9		34	0
	4	4.9		35	0
	5 6	0.1		36	4.3
		0.1		37	4.9
	7	0.1		38	4.6
	8	0.1		39	4.6
	9	0.1		40	4.9
	10	0		41	4.9
	11	4.9		42	4.9
	12	2.3		43	4.0
	13	2.5		44	4.4
	14	2.3		45	0.2
	15	4.8		46	0
	16	4.9		47	0
	17	4.9		48	0
	18	4.9		49	0
	19	4.9		50	0
	20	4.9		51	4.9
	21	4.9		52	4.9
	22	2.9	IC1802	I	0
	23	4.9		G	6.8
	24	0		0	4.9
	25	2.3	01902		
	26	4.9	Q1802	B C	4.9 0.2
	27 28	0 4.9		E	0.2
	28	4.9 4.9	01002		
	30	2.2	Q1803	В	0
	31	0		C	0
	31	U		Е	0

7-4. WAVEFORMS

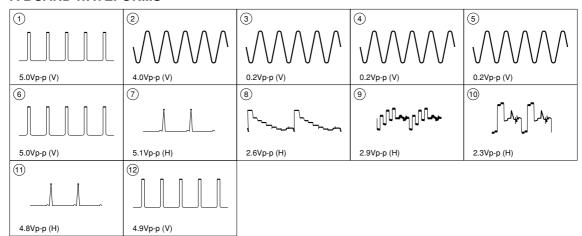
B3 BOARD WAVEFORMS



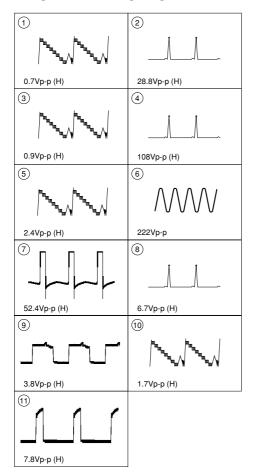
C BOARD WAVEFORMS



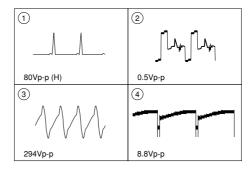
A BOARD WAVEFORMS



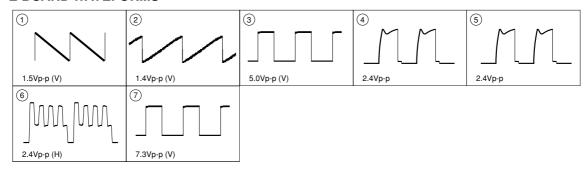
D BOARD WAVEFORMS



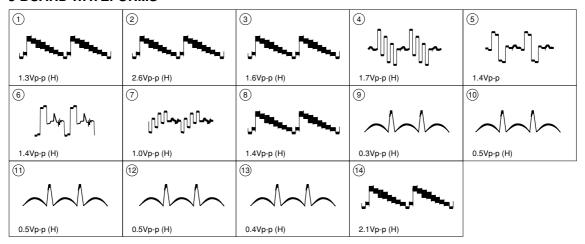
D1 BOARD WAVEFORMS



E BOARD WAVEFORMS



J BOARD WAVEFORMS



V BOARD WAVEFORMS

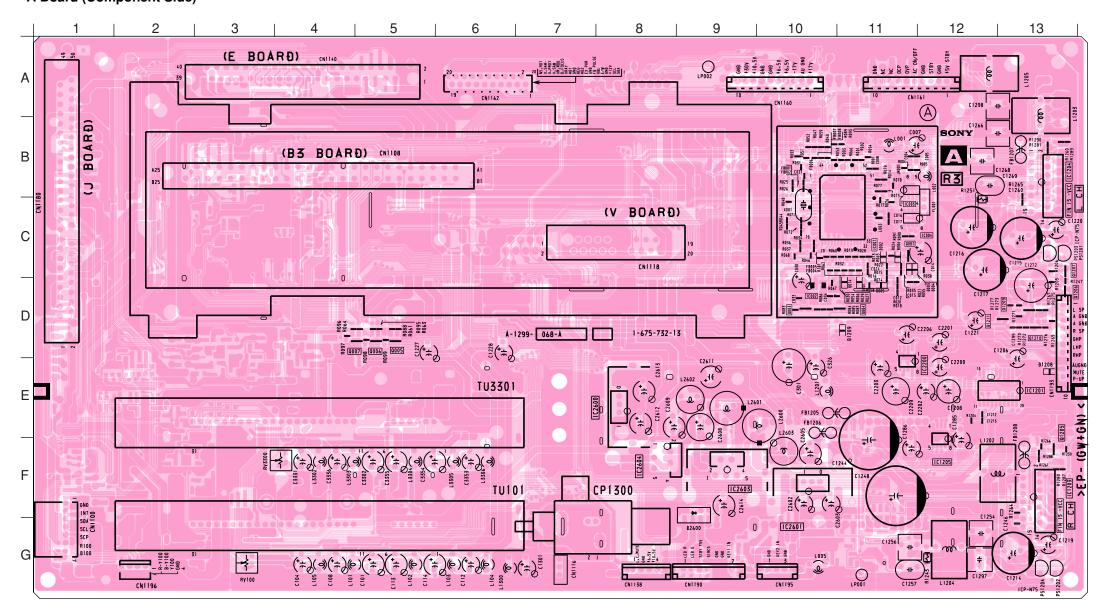


7-5. PRINTED WIRING BOARDS AND PARTS LOCATION BOARDS

PRINTED WIRING BOARDS

[MAIN-MICON, TUVIF, AUDIO AMP]

- A Board (Component Side) -



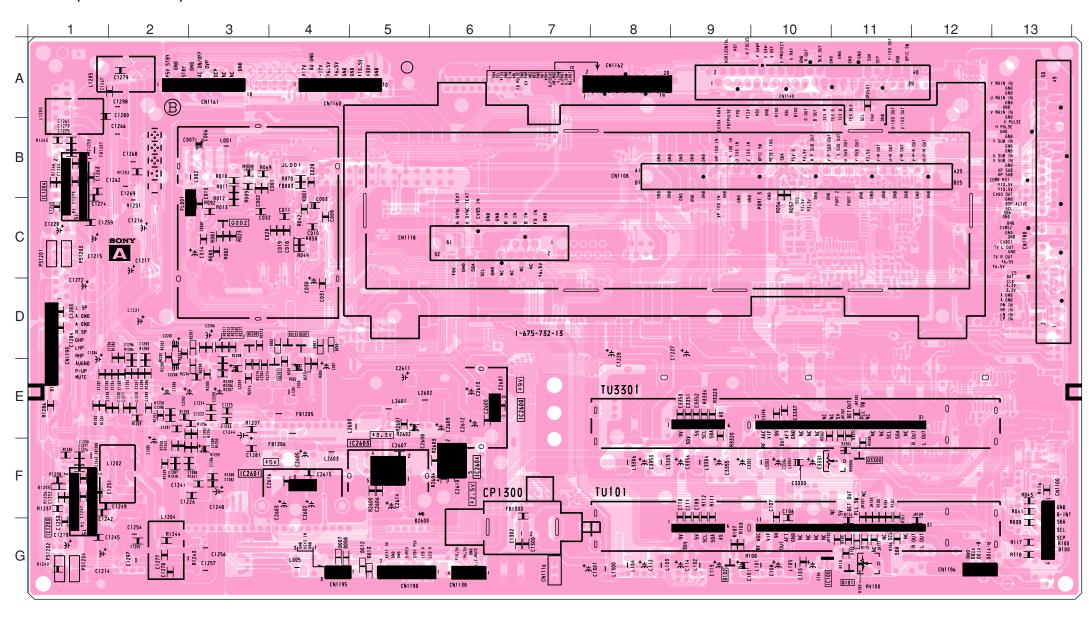
A BOARD (Component Side)

ט) ער
C-11 D-10 C-11 C-12 E-13 F-13 B-13 F-12 E12 E-8 G-10 F-9 F-8
STOR
C-11 D-10 D-11 D-5 D-5 D-4 D-13 C-13 D-13 D-13
DE
D-12

PRINTED WIRING BOARDS



- A Board (Conductor Side) -



A BOARD

IC	
IC100 IC1203 IC1204 IC2601 IC2603	G-1 B-1 F-3
TRANSI	STOR
Q101 Q102 Q301 Q313 Q2200 Q2201 Q3300	G-9 D-4 D-4 D-3 E-4
DIO	DE
D007 D008 D012 D013 D100 D302 D317 D1205 D2200 D2201	E-3

- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

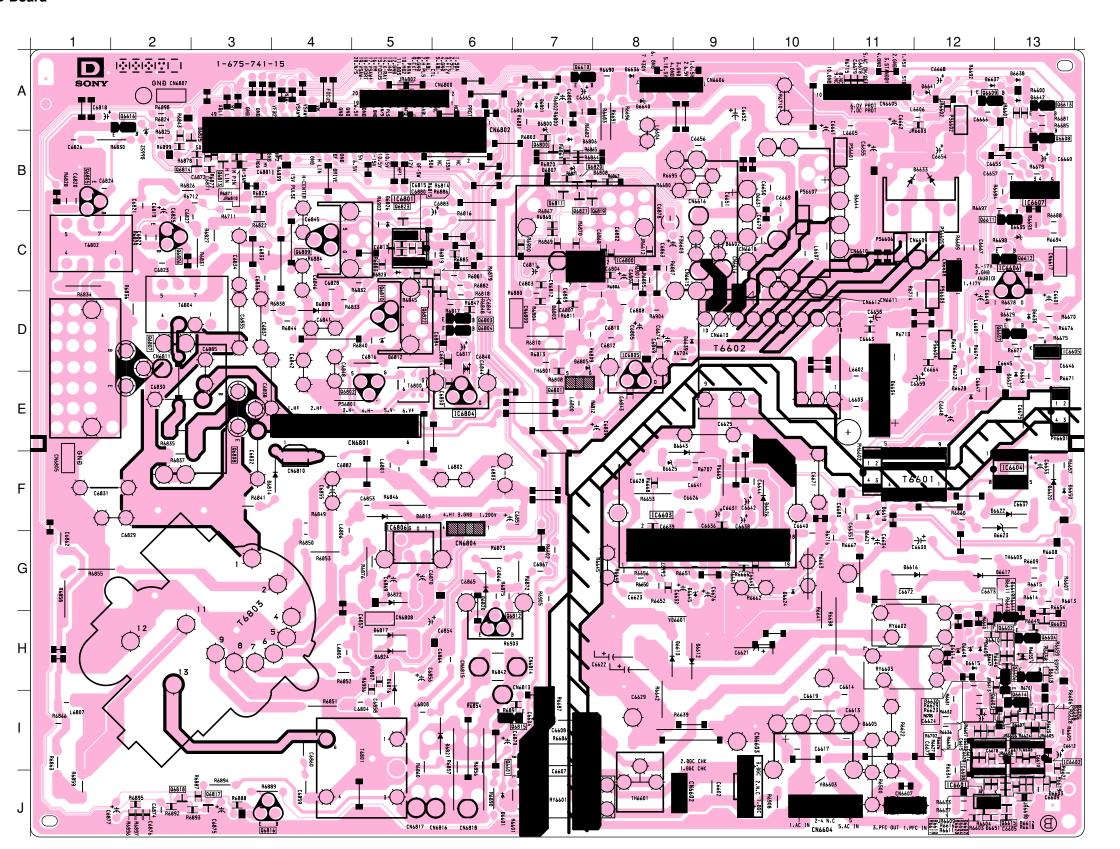
PRINTED WIRING BOARD

[POWER SUPPLY DEFLECTION HV]

- D Board -



NOTE:
The circuit indicated at left contains high voltage of over 1220 Vp-p. Please pay attention when inspecting or repairing it to prevent an electric shock.

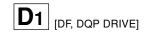


A BOARD

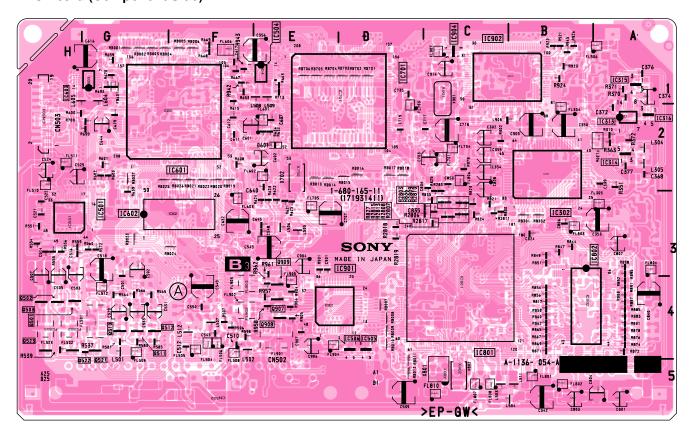
A BOAH	RD				
IC IC6601 IC6602 IC6603 IC6604 IC6605 IC6606 IC6607 IC6608 IC6800 IC6801 IC6804 IC6805 IC6805	J-12 I-13 F-8 F-13 D-13 C-13 B-13 I-12 C-8 B-5 E-6 D-8 F-5	D6607 D6608 D6609 D6610 D6611 D6612 D6613 D6614 D6615 D6616 D6617 D6620 D6621 D6622 D6623 D6624	I-13 I-13 H-12 G-13 H-9 H-12 H-12 G-11 F-13 G-13 G-13 G-13 G-13 G-10	D6630 D6631 D6633 D6634 D6635 D6636 D6637 D6638 D6640 D6641 D6642 D6644 D6645 D6648	D-13 B-10 B-12 E-11 C-13 A-8 A-12 A-13 D-9 A-8 A-12 A-13 E-9 B-11 G-9 H-12 G-13
Q6601 Q6602 Q6603 Q6604 Q6605 Q6606 Q6607 Q6608 Q6609 Q6610 Q6611 Q6615 Q6614 Q6615 Q6616 Q6800 Q6801 Q6805 Q6806 Q6807 Q6806 Q6807 Q6808 Q6809 Q6810 Q6811 Q6811 Q6813 Q6814	I-6 H-13 I-12 H-13 H-13 B-13 A-7 C-12 A-13 I-13 J-13 B-17 D-6 B-17 D-6 B-12 D-5 B-7 D-6 B-12 D-7 B-7 D-6 B-12 D-7 B-13 J-13 B-7 D-13 B-13 B-15 B-15 B-16 B-17 B-17 B-18 B-19 B-19 B-19 B-19 B-19 B-19 B-19 B-19	D6625 D6626 D6627 D6628 D6629 D6630 D6631 D6633 D6634 D6635 D6636 D6637 D6642 D6641 D6642 D6644 D6644 D6644 D6644 D6644 D6605 D6605 D6606 D6607 D6608 D6607 D6610 D6611 D6612 D6613 D6614 D6615 D6616 D6617 D6616 D6617 D6616 D6617 D6616 D6617 D6619 D6616 D6617 D6619 D6610 D6611 D6612 D6620 D6621 D6621 D6623 D6623	F-8 6-10 13 12 13 13 13 14 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	D6650 D6651 D6652 D6800 D6801 D6802 D6803 D6805 D6806 D6807 D6812 D6813 D6814 D6816 D6821 D6823 D6823 D6824 D6825	F-13 J-12 B-2 A-7 A-7 B-7 B-8 B-15 B-16 B-6 B-6 B-5 B-15 B-16 B-16 B-16 B-16 B-16 B-16 B-16 B-16
D6601 D6602 D6603	J-6 J-12 J-13	D6624 D6625 D6626	G-10 F-8 F-10		
D6604 D6605	J-12 I-11	D6627 D6628	E-13 E-12		

PRINTED WIRING BOARD

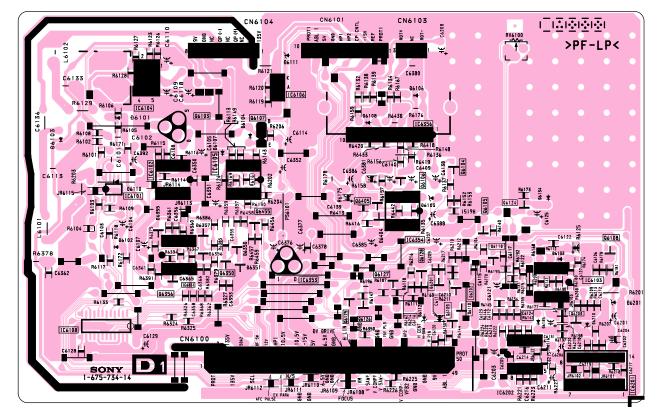




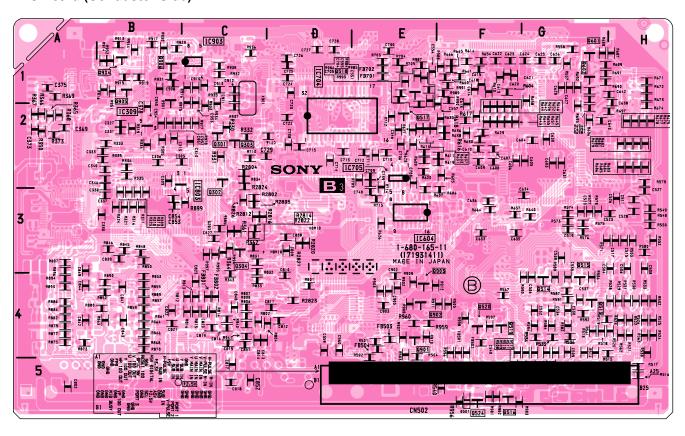
- B3 Board (Component Side) -



- D1 Board -



- B3 Board (Conductor Side) -



- Pattern from the side which enables seeing.
- :Pattern from the rear side.

B3 BOARD (Conductor Side)

D3 DO7	(J. J.J.
IC	;	Q519	D-6
IC304 IC309 IC311 IC604 IC704 IC705 IC803 IC903	A-1 B-2 C-1 C-5 A-4 B-4 C-3 A-3	Q520 Q524 Q601 Q602 Q901 Q902 Q903 Q904 Q905	D-6 E-6 A-7 A-7 D-5 D-5 C-6 A-2 A-2
TRANS	ISTOR	Q906	A-2
Q513	D-7	DIO	DE
Q514 Q515 Q516 Q517	D-7 C-7 E-6 B-5	D301 D302 D901	A-7 B-5 B-11
Q518	A-4		

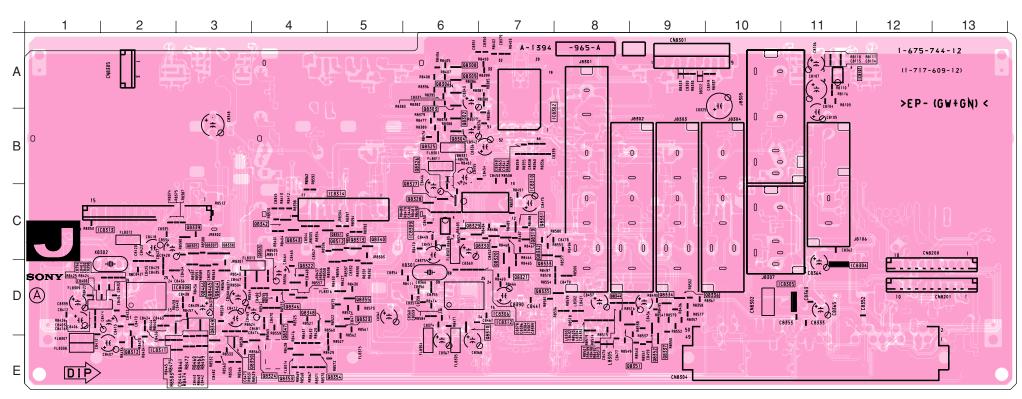
B3 BOARD (Component Side)

,		
IC	TRANS	ISTOR
IC302 C-7 IC303 B-8 IC305 B-7 IC306 B-8 IC307 A-7 IC310 A-7 IC311 C-8 IC311 C-1 IC504 A-4 IC505 D-5 IC506 D-4 IC601 I-8	Q501 Q502 Q503 Q510 Q511 Q512 Q521 Q522 Q523 Q907 Q908 Q909	D-6 E-7 F-6 D-2 F-1 D-2 E-2 E-1 D-1 D-4 D-3 C-4
IC602 H-6		DL .
IC603 D-8 IC701 A-5 IC801 E-6 IC802 C-7 IC901 I-13 IC902 A-6 IC904 A-6	D601	I-8

PRINTED WIRING BOARD



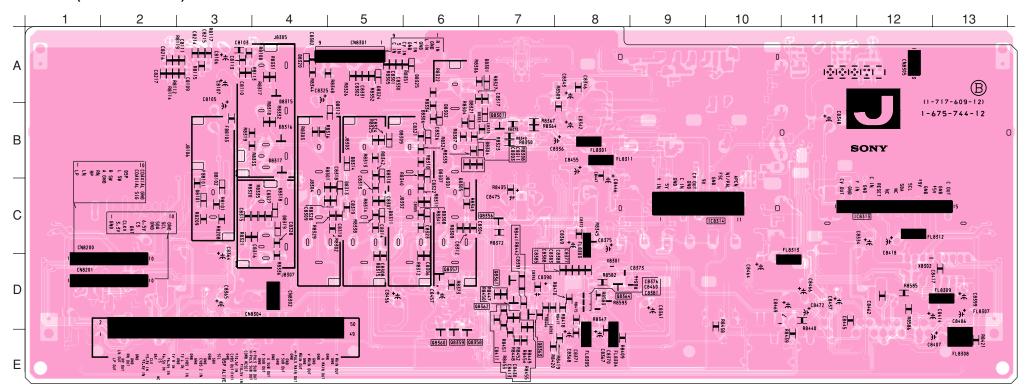
- J Board (Component Side) -



J BOARD (Component Side)

	(<u> </u>		<u>′</u>	
IC IC0302 IC8101 IC8102 IC8103 IC8105 IC8106 IC8107 IC8305 IC8306 IC8308 IC8309 IC8311 IC8312 IC8313 IC8314	A-8 A-12 E-13 B-13 A-13 C-12 D-12 D-11 D-7 C-6 B-7 E-3 D-7 C-2	Q8307 Q8308 Q8309 Q8310 Q8312 Q8313 Q8319 Q8320 Q8321 Q8322 Q8323 Q8324 Q8325 Q8326 Q8327 Q8328 Q8329 Q8330	C-3 A-6 A-6 D-7 E-3 C-5 C-7 C-7 D-4 D-5 D-4 B-6 B-6 C-6 C-7 C-7	Q8339 Q8340 Q8341 Q8343 Q8343 Q8344 Q8345 Q8346 Q8347 Q8348 Q8350 Q8351 Q8352 Q8353 Q8354 Q8355	C-3 C-5 C-4 C-4 D-3 D-4 D-5 E-3 D-4 D-9 E-9 E-5 D-5
IC8311 IC8312	E-3 D-7	Q8328 Q8329	C-6 C-7	Q8354	E-5
IC8313 IC8314	C-2 B-5	Q8330 Q8331	C-7 C-7	·	
TRANSISTOR		Q8332 Q8333	C-7 C-7		
Q8302 Q8303 Q8304 Q8305 Q8306	A-6 A-6 B-6 C-3 A-6	Q8334 Q8335 Q8336 Q8337 Q8338	D-9 D-7 D10 E-9 C-3		

- J Board (Conductor Side) -

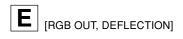


J BOARD (Conductor Side)

`		
IC	D8302 D8303 D8304 D8305 D8306 D8307 D8308 D8309 D8311 D8313 D8314 D8315 D8316	B-6 B-7 C-6 B-6 C-6 B-5 C-5 C-5 B-5 A-4 B-4
IC8104 B-2 IC8313 C-12 IC8314 C-10 TRANSISTOR		
Q8301 B-7 Q8356 C-7 Q8357 D-6 Q8358 E-7 Q8359 E-6 Q8360 E-6		
DIODE		
D8101 C-3 D8102 C-3 D8301 A-4	D8318 D8319 D8320 D8321 D8325	C-4 C-4 A-4 B-6 A-4

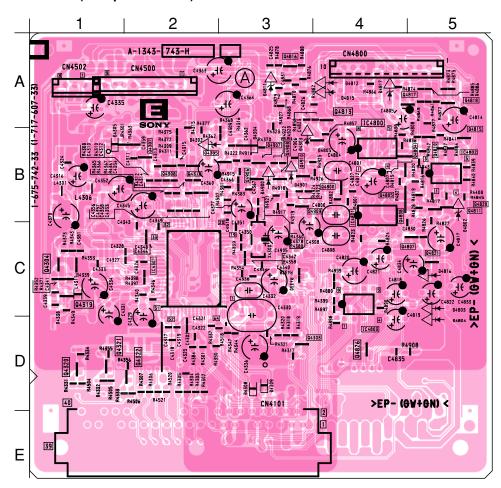
- Pattern from the side which enables seeing.
- :Pattern from the rear side.

PRINTED WIRING BOARD





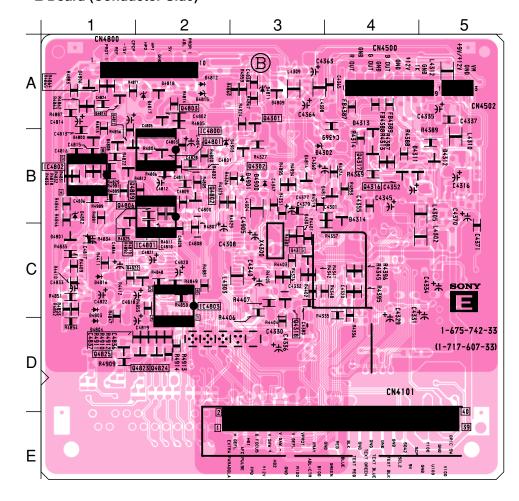
- E Board (Component Side) -



J BOARD (Component Side) O4818 A-5

IC		Q4818 Q4820	A-5 B-5
IC4301 IC4800 IC4801 IC4802 IC4803	C-2 A-4 C-4 B-5 D-4	Q4821 Q4826 Q4906 Q4907 Q4908 Q4909	C-5 D-4 B-3 B-3 B-3 B-3
TRANSI	SIUK	Q4910 Q4808	B-3 B-4
Q4303 Q4304 Q4305	D-3 C-1 B-2	DIOI	DE
Q4307 Q4308 Q4310 Q4319 Q4320 Q4321 Q4322 Q4800 Q4804 Q4805 Q4807 Q4810 Q4811 Q4813 Q4815 Q4816 Q4816	B-2 B-2 B-2 C-1 D-1 D-2 B-4 B-5 B-5 B-5 A-4 B-5 A-4	D4302 D4303 D4304 D4305 D4308 D4309 D4802 D4803 D4804 D4805 D4811 D4812 D4815 D4816 D4817 D4900	B-2 B-3 B-1 D-3 C-5 D-5 B-4 A-4 C-5 A-4 B-3 B-3

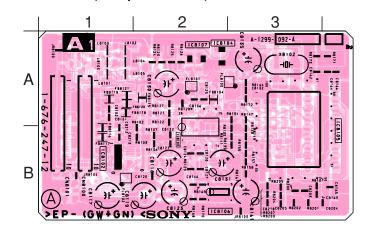
- E Board (Conductor Side) -



J BOARD (Conductor Side)

O DOAII	D (OC	illuuctoi	Oluc		
IC		DIODE			
IC4800 IC4801 IC4802	B-2 C-2 B-1	D4301 D4302 D4303	C-3 B-3 B-2		
IC4803	C-2 STOR	D4311 D4312 D4313	B-4 B-5 A-4		
Q4301 Q4302 Q4315 Q4316 Q4317 Q4318 Q4801 Q4802 Q4803 Q4806 Q4809 Q4812 Q4814 Q4822 Q4824 Q4824 Q4824	A-3 B-3 C-3 B-4 D-3 B-2 B-2 A-2 B-1 A-1 C-1 D-2 D-1	D4314 D4800 D4801 D4802 D4803 D4804 D4808 D4808 D4809 D4811 D4812 D4813 D4814 D4815 D4816 D4817 D4818 D4800 D4901	C-4 B-1 C-1 B-1 C-1 D-1 A-1 B-1 A-3 A-3 A-2 B-3 A-2 C-1 A-2 B-3 B-3 B-3 B-3		

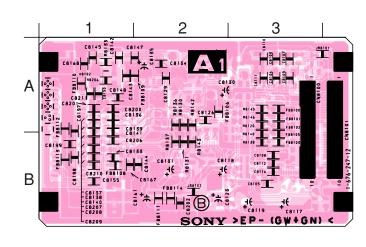
- A1 Board (Component Side) -



A1 BOARD (Component Side)

	(
IC	
IC8104 A IC8105 E IC8106 E	3-1 3-2 3-4 3-3 3-1

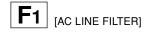
- A1 Board (Conductor Side) -



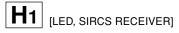
- :Pattern from the side which enables seeing.
- :Pattern from the rear side.

PRINTED WIRING BOARDS





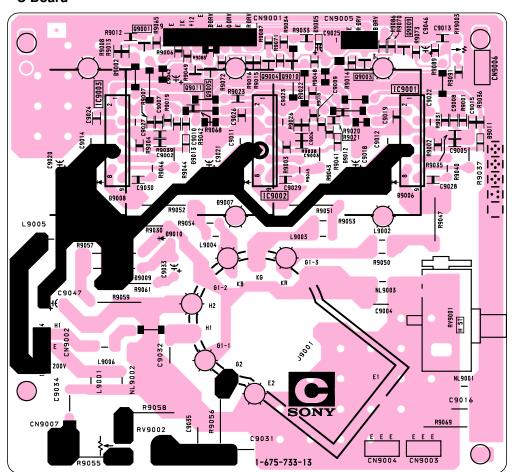




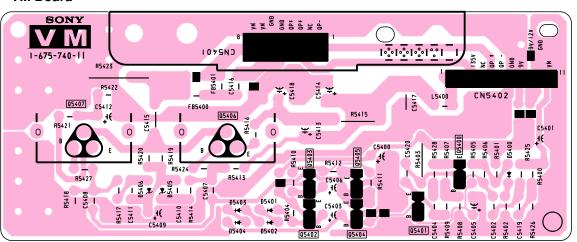




- C Board -



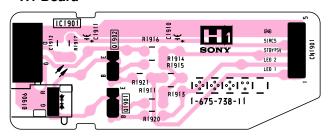
-VM Board -



- H3 Board -



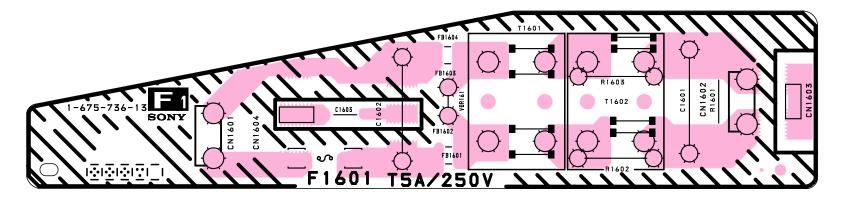
- H1 Board -



- SP Board -



- F1 Board -



PRINTED WIRING BOARDS



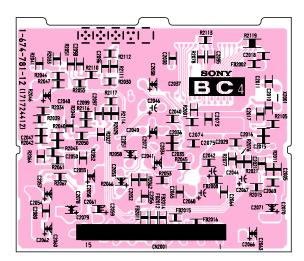
[MAGNETIC FIELD CORRECTION]

TELETEXT] (KV-ES38M31/M61/M91)

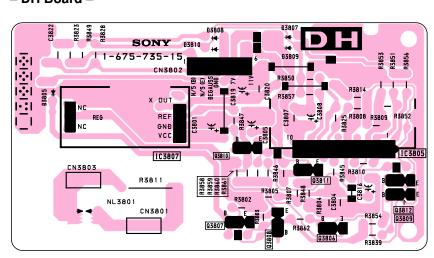
H2 [AV INPUT, PRESET KEY, PHONE OUT]

F2 [AC SWITCH]

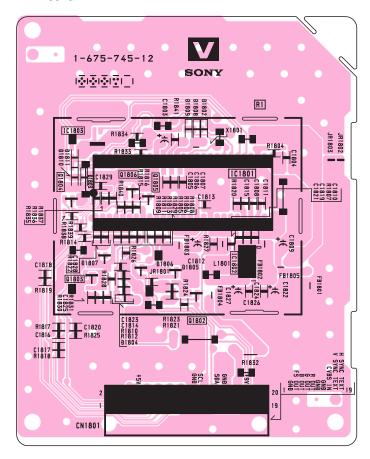
- BC4 Board -



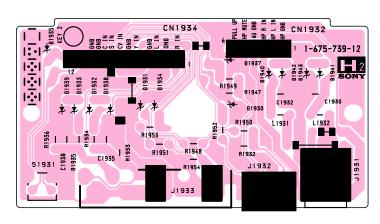
- DH Board -



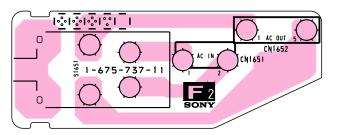
-V Board -



- H2 Board -

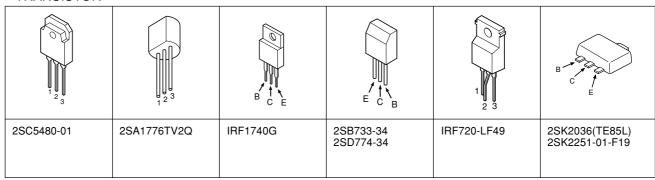


- F2 Board -



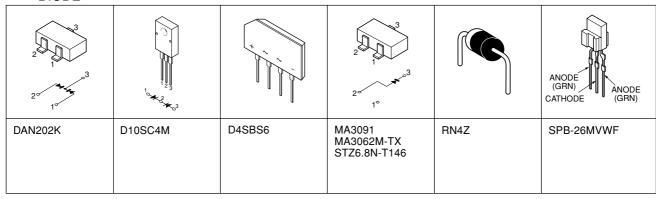
7-6. SEMICONDUCTORS

TRANSISTOR



LETTER SIDE	E C B	123	B C C	G D S	4 3
DTC144ESA 2SC2785-HFE 2SA1175-HFE DTA144ESA DTC114ESA	2SC2500-B	2SC3480(3) IRF1830G-LF49	DTC144EKA 2SC1623-L5L6 2SA1162-G 2SA1037AK-T146 2SC2712-YG 2SD2114K 2SD601A-Q-TX DTC114EK 2SB709A-QRS-TX	IRF620	D10SBS4F

DIODE



+ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	ANODE CATHODE		CATHODE	CATHODE	321
D4SBL20U D4SB60L	DTZ9.1 MA113-(TX) RD5.6SB3 RD9.1S-B HDZS-TE-17-3.9B MA111-TX	D1NL20U-TR HSS83TD HZS9.1NB2 1SS119-25 EL1Z S3L20U-F4 RGP02-20EL-6394	UF4005PKG23 GP08D P6KE200AG23	U05G	2SA2005

IC 88888888888 CATHODE SOP 888888888 TOP VIEW Single In -line Package Pin 8~98 ANODE RD15ES-B2 RD18ESB D1NS4 STV9379 CXA1875AM-T4 NJM4560M RD10ESB2 ERA38-06 RD30ESB2 CXA1211M TLC2932IPWR RD2.7ESB2 RD22ES-B1 M24C04-WMN6T TLC2932IPWR RD5.6ES-B1 RD3.6ES-B1 MB81F161622C-80 TLC2933IPWR-12 ERA85-009 RD6.8ES-B1 M24C08-MN6T TDA7315D013TR RD2.2ES-B2 RD7.5ES-B2 M24C08-MN6T(A) TDA9178T/N1.118 RD3.9ES-B2 RD12ES-B1 MB88141APF-ÈR UPC4558G2 RD4.7ESB2 RD13ES-B1 MM115XFBE RD5.6ESB2 RD15ES-B1 MARKING SIDE VIEW QFP _______ 51 33 DIP 52 **64 64** 32 **TOP VIEW** TOP VIEW Quad Flat L-leaded Package Pin 20~996 Dual In-line Package Single In-line Package Pin 6~99 Pin 6~98 TOP VIEW CXD2090Q CXP750096-035Q MCR5152 CA0007AD CXD9509AQ CXA2100AQ TDA7481 CA0005AD CXA2069Q LM393N PQ5EV3 NJM3404AD-W TLC5733AIPM T0P209P UPC358C LF90CDT-TR S-80743AL-A7-S MM1431ATT BA05T BA09T LA6500-FA MSM514265C-60JS TA78L05S BA12T LF50CDT-TR LA6510 PQ1CG2032F2 S-80743AN-D7 S-80827ANUP-EDQ TA7805S 2SC5511 _____ **TOP VIEW** TOP VIEW LM393N CXD2309Q MCR5152 ON3171-R DM-58 UPD640829F-3BA

			1 TOP VIEW Dual In-line Package Pin 6~98		80 41 81 HIMMAN 50 INDEX 100 HIMMAN 31 1 30 TOP VIEW
PST9145NL		CXA2123AQ-T6 SDA5254-2B006	AK4524 TC7WU04F UPC358C		MB94918RPF- TC9446F-002
CATHODE					
D5S4M	PQ37Z534	SBX1981-51RP	PST9120NL		

RM-91

SECTION 8 EXPLODED VIEWS

NOTE:

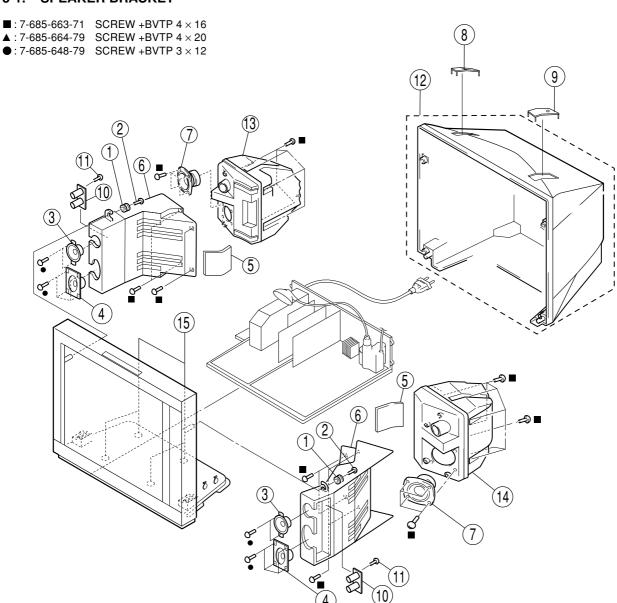
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

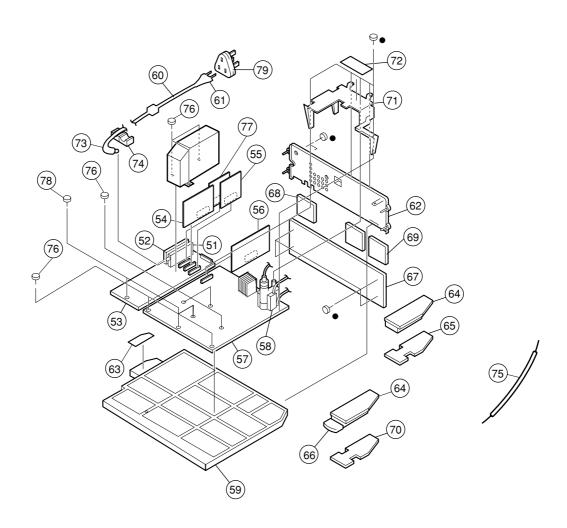
8-1. SPEAKER BRACKET



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1 2	4-374-745-11 4-064-929-02	CUSHION A SCREW, TP + TWH 4 x 25		11 12	4-046-797-01 X-4038-430-2	SCREW (3 x 12), (+) BVTAP COVER ASSY, REAR	(▲ 10 screws)
3	1-529-940-11	SPEAKER (5 cm)		13	A-1501-818-A	SP BOX (L) SUB ASSY	
4	1-529-939-11	SPEAKER (9 x 5 cm)		14	A-1501-820-A	SP BOX (R) SUB ASSY	
5	* 4-073-084-02	DUCT CUSHION		15	4-081-847-01	FOOT	
6 7 8 9 10	* 4-079-164-01 1-505-473-11 4-079-337-01 4-079-336-01 A-1391-163-A	DUCT SPEAKER SPEAKER (12 cm) COVER, SCREW (L) COVER, SCREW (R) SP BOARD MOUNT					

8-2. CHASSIS

●: 7-685-648-79 SCREW +BVTP 3 × 12

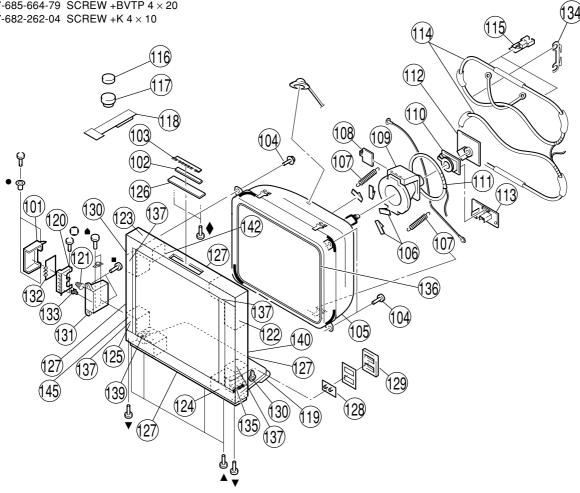


REF. NO.		PART NO.	<u>DESCRIPTION</u> <u>REMARK</u>
51 52 53	*	A-1299-592-A A-1136-251-A	A BOARD COMPLETE (except KV-ES38M90) A BOARD COMPLETE (KV-ES38M90 only) B3 BOARD COMPLETE
55	*	A-1333-173-A	E BOARD MOUNT
56 57	*	A-1348-119-A	D1 BOARD MOUNT D BOARD COMPLETE (KV-ES38M31 only) D BOARD COMPLETE (except KV-ES38M31)
58	À	1-453-360-11	TRANSFORMER ASSY, FLYBACK
			(NX-4601//J1J4) (KV-ES38M61/M90/M91)
	À	1-453-332-21	TRANSFORMER ASSY, FLYBACK
			(NX-4601//J1B4) (KV-ES38M31)
59	*	4-071-314-03	BRACKET, MAIN
60	À	4-022-115-01	HOLDER, AC CORD
61	Æ	1-757-345-11	CORD, POWER (WITH FILTER)
			(KV-ES38M31 only)
	À	1-791-439-11	CORD, POWER (WITH CONNECTOR)
			(KV-ES38M61/M91)
	À	1-590-501-21	CORD, POWER (WITH NOISE FILTER)
			(KV-ES38M90 only)

REF. NO.	PART NO.	DESCRIPTION	REMARK
62	* 4-071-315-02	BRACKET, TERMINAL	
63	* A-1241-509-A	F1 BOARD MOUNTED	
64	* 4-071-307-03	HOLDER, F2/H1	
65	* A-1377-035-A	H1 BOARD MOUNT	
66	4-071-305-03	BUTTON, POWER	
67	* A-1395-041-A	J BOARD COMPLETE	
68	* A-1299-593-A	A1 BOARD COMPLETE	
69	* A-1136-252-A	BC4 BOARD COMPLETE	
70	* A-1241-510-A	F2 BOARD MOUNT	
71	* 4-071-316-02	SUPPORTER, PWB	
72	* A-1333-176-A	DH BOARD MOUNTED (KV	LFS38M31 only)
12	* A-1333-175-A	DH BOARD MOUNTED (KV	• .
	* A-1333-172-A	DH BOARD MOUNTED (KV	• /
73	1-790-082-11	CABLERF	,
74	1-543-653-11	CORE ASSY, BEAD (DIVISI	ON TYPE)
75	1-900-252-15	,	8M31 only)
	1-900-255-46		V-ES38M31)
76	4-302-428-03	SCREW(WASHER HEAD)(+	P3 x 12)
77	* A-1342-626-A	V BOARD MOUNT (except	
78	4-046-797-01	SCREW(3 x 12),(+)BVTAP	11. 1 200011170)
79	1-770-019-11	ADAPTOR, CONVERSION I	PLUG 3P
1)	1 //0.01/-11	(KV-ES38M90 only)	100 31

8-3. PICTURE TUBE

a: 7-685-103-19 SCREW +P 2 × 5 o: 7-685-152-19 SCREW +P 3 × 25 **e**: 7-685-648-79 SCREW +BVTP 3 × 12 **e**: 7-685-663-71 SCREW +BVTP 4 × 16 **e**: 7-685-661-14 SCREW +BVTP 4 × 12 **a**: 7-685-664-79 SCREW +BVTP 4 × 20 **v**: 7-682-262-04 SCREW +K 4 × 10



RE	F. NO.		PART NO.	DESCRIPTION	REMARK
1	101		4-071-308-02	DOOR, CONTROL	
1	102	*	A-1372-730-A	H3 BOARD MOUNTED	
1	103		4-071-312-03	BUTTON, TOP SW	
1	104		4-046-765-12	SCREW, TAPPING 7+CROW	VN WASHER
1	105	<u> </u>	8-735-091-05	PICTURE TUBE (A90LPW8	0X) (KV-ES38M31)
		<u> </u>	8-735-080-05	PICTURE TUBE (A90LPW8	0X) (KV-ES38M61)
		<u> </u>	8-735-090-05	PICTURE TUBE (A90LPW8	0X) (KV-38M90/M91)
	106		2 702 061 01	CD4 CED DV	
]	106		3-703-961-01	SPACER, DY	
	107	4	4-082-357-11	SPACER, DY	
	107	~	4-369-318-61	SPRING, TENSION	
_	108		2-163-920-01	PLATE, TLH CORRECTION	
1	109	⚠	1-451-528-12	DEFLECTION YOKE (Y38R	RSC2)
1	110		8-453-007-31	NA324-M3	
	111		1-452-896-61	COIL, NA ROTATION (RT20	00)
1	112	*	A-1332-227-A	C BOARD MOUNTED	
1	113	*	A-1342-625-A	VM BOARD MOUNTED	
1	114	<u> </u>	1-419-845-11	COIL, DEGAUSSING	
1	115	*	4-080-511-01	CLIP, DGC	
	116		1-452-032-00	MAGNET, DISC	
	117		1-452-094-00	CIRCULAR DISC MAGNET	-
	118		4-051-734-42	PIECE B(120), CONV. CORI	RECT
1	119	*	4-079-159-01	COVER, FRONT	
1	120	*	X-4037-280-2	HOLDER ASSY, CONTROL	

REF. NO.		PART NO.	DESCRIPTION	REMARK
121		4-071-323-01	SPRING, CONE	
122	*	4-079-161-02	BRACKET (TR), CRT	
123	*	4-079-160-02	BRACKET (TL), CRT	
124	*	4-079-163-02	BRACKET (BR), CRT	
125	*	4-079-162-02	BRACKET (BL), CRT	
126	*	4-071-311-02	HOLDER, H3	
127		X-4038-425-2	FRAME ASSY	
128	*	4-071-306-01	LIGHT, GUIDE	
129		4-072-950-01	BRACKET, LIGHT GUIDE	
130		4-073-080-01	FASTEN	
131	*	4-071-310-04	BRACKET, SIDE	
132	*	A-1377-036-A	H2 BOARD MOUNTED	
133		4-047-464-01	CATCHER, PUSH	
134	*	4-054-297-01	HOLDER, DGC	
135	*	4-071-673-01	SHEET, COVER	
136	*	1-419-844-11	COIL, LANDING CORRECTION	
137		4-072-956-01	SCREW SPECIAL (DIA.8) (+TP 4	
138		X-4038-426-1	FRAME SUB ASSY, TOP	71())
139		X-4038-427-1	FRAME SUB ASSY, BOTTOM	
140		X-4038-428-1	FRAME SUB ASSY, RIGHT	
141		X-4038-429-2	FRAME SUB ASSY, LEFT	
1.11		11 1030 42) 2	TRUME SOD ASSOT, EEL T	

SECTION 9 ELECTRICAL PARTS LIST



NOTE:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- · All resistors are in ohms
- F:nonflammable

CAPACITORS

• MF : μ F, PF : $\mu\mu$ F

COILS

• MMH : mH, UH : μ H

REF NO.	PART NO.	DESCRIPTION		REMAR	K.	REF NO.	PART NO.	DESCRIPTION		REMAR	RK_
	* A 1200 504 A	A BOARD COMPI	ETE			C1207	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	251/
	* A-1299-394-A	(KV-ES38M31/ES3		ON (O1)		C1207 C1208	1-104-004-11	ELECT	100UF	20.00%	25 V 16V
	* A 1200 502 A									20.00%	
	* A-1299-592-A	A BOARD COMPI		2838M90,)	C1209	1-164-505-11	CERAMIC CHIP	2.2UF		16V
		4,				C1210	1-125-838-11	CED AMIC CHID	2.2UF	10%	6.3V
	* 1 555 110 00	CADLE DIN						CERAMIC CHIP			
	* 1-555-110-00	CABLE, PIN	D CW(.)			C1211	1-163-989-11	CERAMIC CHIP	0.033UF	10.00%	25V
	4-382-854-11	SCREW (M3X10),	P, SW (+)			C1212	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
						C1213	1-163-989-11	CERAMIC CHIP	0.033UF	10.00%	25V
						C1214	1-126-055-11	ELECT	470UF	20.00%	50V
		<capacitor></capacitor>				C1215	1-126-055-11	ELECT	470UF	20.00%	50V
		CAFACITOR				C1215	1-126-943-11	ELECT	2200UF	20.00%	25V
C001	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C1210 C1217	1-126-943-11	ELECT	2200UF 2200UF	20.00%	25 V 25 V
C001	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V 50V	C1217 C1219	1-126-943-11	ELECT	2.2UF	20.00%	50V
					50 V 50 V						
C004	1-163-001-11	CERAMIC CHIP	220PF	10.00%		C1220	1-126-961-11	ELECT	2.2UF	20.00%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V	C1221	1 106 022 11	FLECT	100115	20.000	1637
C006	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C1221	1-126-933-11	ELECT	100UF	20.00%	16V
C007	1 106 022 11	FLECT	100115	20.000	161	C1222	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C007	1-126-933-11	ELECT	100UF	20.00%	16V	C1223	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C009	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%		C1224	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C010	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	- '	C1225	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C012	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 5		G1220		ann i i ia airin	2 27 15	400	
C013	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C1229	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
9011	1.104.015.11	DI DOM	457.75	20.000	4.633	C1230	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C014	1-126-947-11	ELECT	47UF	20.00%		C1241	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C015	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 5		C1242	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C016	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V	C1243	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C017	1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V						
C018	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C1244	1-110-617-51	ELECT	2200UF	20.00%	50V
						C1245	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C019	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C1246	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C020	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C1247	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C021	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C1248	1-110-617-51	ELECT	2200UF	20.00%	50V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 5							
C028	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V	C1249	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
						C1251	1-163-017-00	CERAMIC CHIP	0.0047UF		50V
C031	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%		C1252	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C032	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C1253	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C033	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C1254	1-136-165-00	FILM	0.1UF	5.00%	50V
C034	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V						
C103	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C1255	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
						C1256	1-137-194-81	FILM	0.47UF	5.00%	50V
C104	1-126-933-11	ELECT	100UF	20.00%	16V	C1258	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C107	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	C1259	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C108	1-126-933-11	ELECT	100UF	20.00%		C1260	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C109	1-163-005-91	CERAMIC CHIP	470PF	10.00%							
C110	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	C1262	1-163-009-91	CERAMIC CHIP		10.00%	50V
						C1263	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C111	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	C1264	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C112	1-126-933-11	ELECT	100UF	20.00%	16V	C1265	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C113	1-126-947-11	ELECT	47UF	20.00%	16V	C1266	1-136-165-00	FILM	0.1UF	5.00%	50V
C114	1-126-967-11	ELECT	47UF	20.00%	50V						
C301	1-126-767-11	ELECT	1000UF	20.00%	16V	C1267	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
						C1268	1-137-194-81	FILM	0.47UF	5.00%	50V
C326	1-126-964-11	ELECT	10UF	20.00%	50V	C1270	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V
C1201	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C1271	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V
C1202	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C1272	1-126-941-11	ELECT	470UF	20.00%	25V
C1203	1-164-505-11	CERAMIC CHIP	2.2UF		16V						
C1204	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V	C1273	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
						C1274	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1205	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V	C1275	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V
C1206	1-126-965-91	ELECT	22UF	20.00%	50V						



REF NO.	PART NO.	DESCRIPTION		REMAR	K	REF NO.	PART NO.	DESCRIPTION		REMARK
C1076	1 162 007 11	CED AMIC CHID	(00DE	10.000	5037	CN11160	1 000 002 64	COMMECTOR ACC	37. 20D	
C1276	1-163-007-11	CERAMIC CHIP	680PF	10.00%		CN1162	1-900-903-64	CONNECTOR ASS		2.55.505
C1277	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V	CN1180	1-793-495-11	CONNECTOR, BO		JARD 50P
						CN1190 *	1-564-510-11	PLUG, CONNECT	OR 7P	
C1279	1-164-690-91	CERAMIC CHIP	0.0022UF		50V					
C1281	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V	CN1193 *	1-764-333-11	PLUG, CONNECTO	OR 10P	
C1282	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V	CN1195 *	1-564-506-11	PLUG, CONNECTO	OR 3P	
C1283	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V					
C1284	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V					
								<composition (<="" td=""><td>CIRCUIT BI</td><td>LOCK></td></composition>	CIRCUIT BI	LOCK>
C1285	1-126-933-11	ELECT	100UF	20.00%	16V					
C1286	1-126-933-11	ELECT	100UF	20.00%		CP1300	1-251-658-31	SPLITTER RF		
C1287	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	01 1000	1 201 000 01	51211121111		
C1288	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V					
C1289	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V			<diode></diode>		
C1209	1-103-231-11	CERAWIC CIII	10011	3.00 /0	30 v			(DIODE)		
C1200	1 162 251 11	CED AMIC CUID	100DE	£ 0001	5037	D001	9 710 404 50	MA111 TV		
C1290	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	D001	8-719-404-50	MA111-TX		
C1291	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	D002	8-719-404-50	MA111-TX		
C1292	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	D003	8-719-404-50	MA111-TX		
C1297	1-137-194-81	FILM	0.47UF	5.00%	50V	D004	8-719-404-50	MA111-TX		
C1298	1-137-194-81	FILM	0.47UF	5.00%	50V	D005	8-719-404-50	MA111-TX		
C1301	1-126-933-11	ELECT	100UF	20.00%	16V	D006	8-719-404-50	MA111-TX		
C1302	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V	D007	8-719-158-18	RD5.6SB3		
C2200	1-126-964-11	ELECT	10UF	20.00%		D013	8-719-158-18	RD5.6SB3		
C2201	1-126-964-11	ELECT	10UF	20.00%		D014	8-719-404-50	MA111-TX		
C2201	1-126-964-11	ELECT	10UF	20.00%		D100	8-719-404-50	MA111-TX		
C2202	1-120-904-11	ELECT	1001	20.00 /6	30 v	D100	0-717-404-30	MAIII-IA		
C2202	1 126 062 11	ELECT	4.7HE	20.0001	5037	D200	9 710 404 50	MA111 TV		
C2203	1-126-963-11	ELECT	4.7UF	20.00%		D300	8-719-404-50	MA111-TX		
C2204	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V	D301	8-719-404-50	MA111-TX		
C2205	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V	D302	8-719-404-50	MA111-TX		
C2206	1-126-964-11	ELECT	10UF	20.00%		D317	8-719-404-50	MA111-TX		
C2209	1-126-968-11	ELECT	100UF	20.00%	50V	D1205	8-719-158-35	RD9.1S-B		
C2600	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	D1208	8-719-404-50	MA111-TX		
C2601	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	D1209	8-719-404-50	MA111-TX		
C2602	1-126-933-11	ELECT	100UF	20.00%	16V	D2200	8-719-158-35	RD9.1S-B		
C2603	1-126-933-11	ELECT	100UF	20.00%		D2201	8-719-158-35	RD9.1S-B		
C2605	1-126-935-11	ELECT	470UF	20.00%		D2600	8-719-500-70	D5S4M		
C2003	1 120 733 11	LLLCI	47001	20.0070	10 1	D2000	0 717 300 70	D354141		
C2606	1-164-344-11	CERAMIC CHIP	0.068UF	10.00%	251/					
								EEDDITE DE AD		
C2608	1-126-916-11	ELECT	1000UF	20.00%				<ferrite bead=""></ferrite>	>	
C2609	1-126-935-11	ELECT	470UF	20.00%		ED001	1 414 222 22	EED DIEE	01111	
C2610	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%		FB001	1-414-233-22	FERRITE	0UH	
C2611	1-126-934-11	ELECT	220UF	20.00%	10V	FB002	1-414-233-22	FERRITE	0UH	
						FB003	1-414-233-22	FERRITE	0UH	
C2612	1-126-933-11	ELECT	100UF	20.00%		FB004	1-414-233-22	FERRITE	0UH	
C2613	1-126-933-11	ELECT	100UF	20.00%	16V	FB005	1-414-233-22	FERRITE	0UH	
C2614	1-126-935-11	ELECT	470UF	20.00%	10V					
C3330	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	FB006	1-414-233-22	FERRITE	0UH	
C3331	1-126-933-11	ELECT	100UF	20.00%	16V	FB007	1-414-233-22	FERRITE	0UH	
	/					FB008	1-414-233-22	FERRITE	0UH	
C3336	1-126-933-11	ELECT	100UF	20.00%	16V	FB1205	1-410-397-21	FERRITE	1.1UH	
C3338	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	FB1206	1-410-397-21	FERRITE	1.1UH	
C3350			470PF	10.00%		1 1 1 2 0 0	1-410-377-21	TERRITE	1.1011	
	1-163-005-91	CERAMIC CHIP				ED 1007	1 410 207 21	PEDDITE	1 11111	
C3351	1-163-005-91	CERAMIC CHIP	470PF	10.00%		FB1207	1-410-397-21	FERRITE	1.1UH	
C3352	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V	FB1208	1-410-397-21	FERRITE	1.1UH	
						FB1300	1-216-295-91	SHORT	0	
C3353	1-126-933-11	ELECT	100UF	20.00%						
C3354	1-126-967-11	ELECT	47UF	20.00%	50V					
C3355	1-126-947-11	ELECT	47UF	20.00%	16V			<filter></filter>		
						FL001	1-236-071-11	ENCAPSULATED	COMPONE	NT
		<connector></connector>								
CN1100 3	* 1-560-218-00	PIN, CONNECTOR	R 7P					<ic></ic>		
CN1100	1-695-299-11	CONNECTOR, BO		OADD 50)D			107		
			7 IVD 10 D	OAKD 30	'1	IC001	8-752-920-74	CVD750006 0250		
CN1116	1-695-915-11	TAB (CONTACT)	MDD TO 5	O 4 D D 20	ND.	IC001		CXP750096-035Q		
CN1118	1-793-493-11	CONNECTOR, BO			ır	IC002	8-759-042-02	S-80743AL-A7-S		
0.74.750		(KV-ES38M31/ES3		5M91)		IC003	8-759-675-64	M24C08-MN6T(A))	
CN1138 *	* 1-564-507-11	PLUG, CONNECT	OK 4P			IC004	8-759-575-71	M24C04-WMN6T		
						IC100	8-759-042-02	S-80743AL-A7-S		
CN1140	1-793-494-11	CONNECTOR, BO		OARD 40)P					
CN1160 3	* 1-764-333-11	PLUG, CONNECT	OR 10P			IC1201	8-759-273-12	TDA7315D013TR		
						IC1203	8-759-553-45	TDA7481		



										-
REF NO.	PART NO.	DESCRIPTION		REMARK	REF NO.	PART NO.	DESCRIPTION		REMA	RK
TC120.4	0.750.552.45	TD 1.7.101			01200	0.720.220.40	2000012 1/0		-	
IC1204	8-759-553-45	TDA7481			Q1209	8-729-230-49	2SC2712-YG			
IC1205	8-759-100-96	UPC4558G2			Q1210	8-729-230-49	2SC2712-YG	(D		
IC2200	8-759-745-64	NJM4560M			Q1211	8-729-026-49	2SA1037AK-T14	5-K		
102(00	0.750.204.26	DAGOT			Q2200	1-801-806-11	TR DTC144EKA			
IC2600	8-759-394-36	BA09T			Q2201	1-801-806-11	TR DTC144EKA			
IC2601	8-759-450-47	BA05T			02200	0.720.027.40	20 4 1027 4 17 17 14	(D		
IC2603	8-759-640-19	PQ1CG2032FZ			Q3300	8-729-026-49	2SA1037AK-T14	b-K		
IC2604	8-759-644-37	PQ5EV3								
							<resistor></resistor>			
		<chip conduct<="" td=""><td>mp.</td><td></td><td></td><td></td><td><resistor></resistor></td><td></td><td></td><td></td></chip>	mp.				<resistor></resistor>			
		CUIL CONDUCT	UK>		R001	1-216-033-00	DEC CHID	220	5%	1/10W
JR001	1-216-295-91	SHORT	0		R001 R002	1-216-033-00	RES-CHIP RES-CHIP	220	5%	1/10W 1/10W
JR001 JR002	1-216-295-91	SHORT	0		R002 R003	1-216-033-00	RES-CHIP	1K	5%	1/10W 1/10W
JR102	1-216-295-91	SHORT	0		R003	1-216-049-11	SHORT	0	370	1/10 W
JR102 JR107	1-216-295-91	SHORT	0		R004	1-216-295-91	SHORT	0		
JR1301	1-216-295-91	SHORT	0		KOOS	1-210-293-91	SHOKI	U		
JK1501	1-210-2/5-/1	SHORI	U		R006	1-216-033-00	RES-CHIP	220	5%	1/10W
JR2601	1-216-295-91	SHORT	0		R008	1-216-055-00	RES-CHIP	4.7K	5%	1/10W
31(2001	1 210 2/3 /1	SHORT	O		R010	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
					R011	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
		<coil></coil>			R012	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
		10012			11012	1 210 001 71	1125 0111	0.011	570	1,10
L001	1-414-856-11	INDUCTOR	10UH		R013	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
L002	1-414-856-11	INDUCTOR	10UH		R014	1-216-025-11	RES-CHIP	100	5%	1/10W
L003	1-414-751-11	INDUCTOR	1UH		R015	1-216-025-11	RES-CHIP	100	5%	1/10W
L005	1-414-856-11	INDUCTOR	10UH		R016	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
L101	1-414-856-11	INDUCTOR	10UH		R017	1-216-049-11	RES-CHIP	1K	5%	1/10W
										-,
L102	1-414-856-11	INDUCTOR	10UH		R018	1-216-045-00	RES-CHIP	680	5%	1/10W
L103	1-414-856-11	INDUCTOR	10UH		R019	1-216-049-11	RES-CHIP	1K	5%	1/10W
L104	1-414-856-11	INDUCTOR	10UH		R020	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
L105	1-414-856-11	INDUCTOR	10UH		R021	1-216-295-91	SHORT	0		,
L1201	1-414-187-11	INDUCTOR	47UH		R022	1-216-033-00	RES-CHIP	220	5%	1/10W
L1202	1-416-857-11	INDUCTOR	65UH		R023	1-216-025-11	RES-CHIP	100	5%	1/10W
L1203	1-416-857-11	INDUCTOR	65UH		R024	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
L1204	1-416-857-11	INDUCTOR	65UH		R025	1-216-033-00	RES-CHIP	220	5%	1/10W
L1205	1-416-857-11	INDUCTOR	65UH		R026	1-216-033-00	RES-CHIP	220	5%	1/10W
L1300	1-414-856-11	INDUCTOR	10UH		R027	1-216-049-11	RES-CHIP	1K	5%	1/10W
L2600	1-419-249-11	INDUCTOR	15UH		R028	1-216-049-11	RES-CHIP	1K	5%	1/10W
L2601	1-419-249-11	INDUCTOR	15UH		R029	1-216-049-11	RES-CHIP	1K	5%	1/10W
L2602	1-412-525-31	INDUCTOR	10UH		R031	1-216-033-00	RES-CHIP	220	5%	1/10W
L2603	1-412-525-31	INDUCTOR	10UH		R032	1-216-049-11	RES-CHIP	1K	5%	1/10W
L3302	1-414-856-11	INDUCTOR	10UH		R033	1-216-033-00	RES-CHIP	220	5%	1/10W
L3303	1-414-856-11	INDUCTOR	10UH		R035	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
L3304	1-414-856-11	INDUCTOR	10UH		R036	1-216-033-00	RES-CHIP	220	5%	1/10W
L3305	1-414-856-11	INDUCTOR	10UH		R037	1-216-033-00	RES-CHIP	220	5%	1/10W
L3306	1-414-856-11	INDUCTOR	10UH		R038	1-216-045-00	RES-CHIP	680	5%	1/10W
					R039	1-216-025-11	RES-CHIP	100	5%	1/10W
		IOI DW			D040	1.016.000.00	DEC CUIE	220	F 01	1/1077
		<ic link=""></ic>			R040	1-216-033-00	RES-CHIP	220	5%	1/10W
DC1201	1 522 (0(21	I DIV 10 2 74 /150	N 7		R041	1-216-025-11	RES-CHIP	100	5%	1/10W
PS1201	1-532-686-21	LINK, IC 2.7A/150			R042	1-216-295-91	SHORT	0	E 01	1/10337
PS1202	1-532-686-21	LINK, IC 2.7A/150			R043	1-216-025-11	RES-CHIP	100	5%	1/10W
PS1203	1-532-686-21	LINK, IC 2.7A/150			R044	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
PS1204	1-532-686-21	LINK, IC 2.7A/150) V		R045	1 216 065 01	DEC CHID	17V	501	1/10W
					R045 R046	1-216-065-91 1-216-033-00	RES-CHIP RES-CHIP	4.7K 220	5%	1/10W 1/10W
		<transistor></transistor>			R040 R047	1-216-033-00	RES-CHIP	220	5% 5%	1/10W
		<transistor></transistor>			R047 R048	1-216-033-00	RES-CHIP	10K	5%	1/10W
Q001	8-729-026-49	2SA1037AK-T146	_R		R051	1-216-073-91	RES-CHIP	10K	5%	1/10W 1/10W
Q001 Q002	8-729-230-49	2SC2712-YG	-10		K051	1-210-0-7-11	KL5-CIII	110	370	1/10**
Q002 Q003	8-729-230-49	2SC2712-YG			R052	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q003 Q004	8-729-230-49	2SC2712-YG			R052	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q101	8-729-026-49	2SA1037AK-T146	-R		R054	1-216-033-00	RES-CHIP	220	5%	1/10W
4.0.	2 . 2 , 0 2 0 1)		-		R055	1-216-295-91	SHORT	0	570	-, -0 .1
Q301	8-729-026-49	2SA1037AK-T146	-R		R056	1-216-295-91	SHORT	0		
Q313	8-729-230-49	2SC2712-YG				. =, = , •	-	-		
Q1205	1-801-806-11	TR DTC144EKA			R057	1-216-295-91	SHORT	0		
Q1206	8-729-230-49	2SC2712-YG			R058	1-216-295-91	SHORT	0		
Q1207	8-729-230-49	2SC2712-YG			R059	1-216-033-00	RES-CHIP	220	5%	1/10W



REF NO.	PART NO.	DESCRIPTION		REMAI	RK	REF NO.	PART NO.	DESCRIPTION		REMA	RK
R060	1-216-033-00	RES-CHIP	220	5%	1/10W	R1246	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R062	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1247	1-216-085-91	RES-CHIP	33K	5%	1/10W
					-,						-,
R065	1-216-045-00	RES-CHIP	680	5%	1/10W	R1248	1-216-075-00	RES-CHIP	12K	5%	1/10W
R066	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1249	1-216-025-11	RES-CHIP	100	5%	1/10W
R067	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1250	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R068	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1252	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R069	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R1253	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R070	1-216-033-00	RES-CHIP	220	5%	1/10W	R1254	1-216-075-00	RES-CHIP	12K	5%	1/10W
R071	1-216-025-11	RES-CHIP	100	5%	1/10W	R1255	1-216-075-00	RES-CHIP	12K	5%	1/10W
R072	1-216-025-11	RES-CHIP	100	5%	1/10W	R1256	1-216-073-91	RES-CHIP	10K	5%	1/10W
R073	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R1257	1-216-025-11	RES-CHIP	100	5%	1/10W
R074	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R1258	1-216-075-00	RES-CHIP	12K	5%	1/10W
R075	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R1259	1-216-073-91	RES-CHIP	10K	5%	1/10W
R076 R077	1-216-295-91 1-216-025-11	SHORT RES-CHIP	0 100	5%	1/10W	R1260 R1261	1-216-037-00 1-216-037-00	RES-CHIP RES-CHIP	330 330	5% 5%	1/10W 1/10W
R078	1-216-025-11	SHORT	0	370	1/10 vv	R1264	1-216-037-00	RES-CHIP	470	5% 5%	1/10W
R079	1-216-025-11	RES-CHIP	100	5%	1/10W	R1265	1-216-041-00	RES-CHIP	470	5%	1/10W
					,						,
R080	1-216-063-91	RES-CHIP	3.9K	5%	1/10W	R1266	1-216-049-11	RES-CHIP	1K	5%	1/10W
R081	1-216-025-11	RES-CHIP	100	5%	1/10W	R1267	1-216-077-91	RES-CHIP	15K	5%	1/10W
R082	1-216-041-00	RES-CHIP	470	5%	1/10W	R1269	1-216-025-11	RES-CHIP	100	5%	1/10W
R083	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1270	1-216-089-91	RES-CHIP	47K	5%	1/10W
R084	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1271	1-216-049-11	RES-CHIP	1K	5%	1/10W
R085	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R1272	1-216-049-11	RES-CHIP	1K	5%	1/10W
R086	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1273	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R087	1-216-033-00	RES-CHIP	220	5%	1/10W	R1275	1-216-081-00	RES-CHIP	22K	5%	1/10W
R089	1-216-049-11	RES-CHIP	1K	5%	1/10W	R1276	1-216-081-00	RES-CHIP	22K	5%	1/10W
R090	1-216-295-91	SHORT	0			R1277	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R091	1-216-295-91	SHORT	0			R1280	1-216-037-00	RES-CHIP	330	5%	1/10W
R092	1-216-033-00	RES-CHIP	220	5%	1/10W	R1281	1-216-037-00	RES-CHIP	330	5%	1/10W
R093	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1283	1-216-295-91	SHORT	0		-,
R094	1-216-073-91	RES-CHIP	10K	5%	1/10W	R1284	1-216-295-91	SHORT	0		
R101	1-216-025-11	RES-CHIP	100	5%	1/10W	R1286	1-216-073-91	RES-CHIP	10K	5%	1/10W
D102	1 216 025 11	DEG CHID	100	5.01	1 /1 0337	D1207	1 216 027 00	DEG CHID	220	501	1 (1033)
R102 R105	1-216-025-11 1-216-295-91	RES-CHIP SHORT	100 0	5%	1/10W	R1287 R1288	1-216-037-00 1-216-037-00	RES-CHIP RES-CHIP	330 330	5% 5%	1/10W 1/10W
R109	1-216-293-91	RES-CHIP	470	5%	1/10W	R1289	1-216-037-00	RES-CHIP	330	5% 5%	1/10W 1/10W
R110	1-216-043-91	RES-CHIP	560	5%	1/10W	R1290	1-216-037-00	RES-CHIP	330	5%	1/10W
R111	1-216-025-11	RES-CHIP	100	5%	1/10W	R2200	1-216-021-00	RES-CHIP	68	5%	1/10W
R112	1-216-025-11	RES-CHIP	100	5%	1/10W	R2201	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R116	1-216-025-11	RES-CHIP	100	5%	1/10W	R2202	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R117	1-216-025-11	RES-CHIP	100	5%	1/10W	R2203	1-216-021-00	RES-CHIP	68	5%	1/10W
R118 R301	1-216-025-11 1-216-113-00	RES-CHIP RES-CHIP	100 470K	5% 5%	1/10W 1/10W	R2204 R2205	1-216-073-91 1-216-097-11	RES-CHIP RES-CHIP	10K 100K	5% 5%	1/10W 1/10W
1001	1 210 113 00	KES CIII	4701	370	1/10 **	102203	1 210 07/ 11	KLS CIII	1001	370	1,10 **
R302	1-216-089-91	RES-CHIP	47K	5%	1/10W	R2206	1-216-117-00	RES-CHIP	680K	5%	1/10W
R303	1-216-089-91	RES-CHIP	47K	5%	1/10W	R2207	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R1201	1-216-033-00	RES-CHIP	220	5%	1/10W	R2208	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1202	1-216-033-00	RES-CHIP	220	5%	1/10W	R2209	1-216-117-00	RES-CHIP	680K	5%	1/10W
R1203	1-216-079-00	RES-CHIP	18K	5%	1/10W	R2210	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1204	1-216-079-00	RES-CHIP	18K	5%	1/10W	R2211	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1205	1-216-089-91	RES-CHIP	47K	5%	1/10W	R2212	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1206	1-216-089-91	RES-CHIP	47K	5%	1/10W	R2213	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1207	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2214	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1208	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2215	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1236	1-208-808-11	METAL CHIP	12K	0.5%	1/10W	R2216	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1236 R1237	1-208-808-11	RES-CHIP	33K	0.5% 5%	1/10W 1/10W	R2216 R2217	1-216-065-91	RES-CHIP	4.7K 4.7K	5% 5%	1/10W 1/10W
R1237	1-216-083-91	RES-CHIP	22K	5%	1/10W	R2600	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1239	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	R2601	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R1240	1-216-085-91	RES-CHIP	33K	5%	1/10W	R2602	1-208-781-11	METAL CHIP	910	0.5%	1/10W
R1241	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2603	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R1242 R1244	1-216-073-91 1-216-065-91	RES-CHIP RES-CHIP	10K 4.7K	5% 5%	1/10W 1/10W	R2604 R3300	1-208-790-11 1-216-043-91	METAL CHIP RES-CHIP	2.2K 560	0.5% 5%	1/10W 1/10W
K12 44	1-210-003-71	KES-CHIF	7./K	5 /0	1/10 W	K3300	1-210-043-71	KES-CHIF	500	3 10	1/10 99





REF NO.	PART NO.	DESCRIPTION		REMAR	K	REF NO.	PART NO.	DESCRIPTION		REMAR	 RK
TELT TION	1111111101	<u>BESCHIII TION</u>		11211111			1111111101	<u>BESSELLI TIOT</u>		•	
R3320	1-216-073-91	RES-CHIP	10K	5%	1/10W	C8141	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
R3323	1-216-025-11	RES-CHIP	100	5%	1/10W	C8142	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
R3334	1-216-025-11	RES-CHIP	100	5%	1/10W	C8143	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
R3362	1-216-025-11	RES-CHIP	100	5%	1/10W	C8144	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
R3374	1-216-295-91	SHORT	0	370	1/10**	C8145	1-163-233-91	CERAMIC CHIP	18PF	5.00%	50V
						C8146	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	
						C8147	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
		<variable resi<="" td=""><td>STOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></variable>	STOR>								
						C8150	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	
RV3300	1-238-597-11	RES, ADJ, CARBO	ON 1K			C8155	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	
						C8161	1-127-532-11	ELECT	47UF	20.00%	
		<tuner></tuner>				C8162 C8163	1-164-505-11 1-216-295-91	CERAMIC CHIP SHORT	2.2UF 0		16V
		<10NEK>				C8103	1-210-293-91	SHORI	U		
TU101	8-598-452-30	TUNER, FSS BTF-	WG442			C8166	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
TU3301	8-598-508-10	TUNER, FSS BTF-				C8167	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
						C8168	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
						C8197	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
		<crystal></crystal>				C8198	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
37001	1 567 020 11	VIDI ATOD CEDA	MC			C0100	1 164 004 11	CED A MIC CHID	0.1115	10.000/	2517
X001	1-567-928-11	VIBLATOR, CERA	AMIC			C8199 C8200	1-164-004-11 1-216-295-91	CERAMIC CHIP SHORT	0.1UF 0	10.00%	25V
						C8200	1-216-295-91	SHORT	0		
						C8202	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
******	******	******	*****	******	*****	C8203	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	
;	* A-1299-593-A	A1 BOARD COME				C8204	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
		*********	*****			C8205	1-163-253-11	CERAMIC CHIP	120PF	5.00%	50V
	3-350-679-01	WASHER, FIBER				C8206	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
						C8207 C8208	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V 50V
						C6206	1-163-251-11	CERAMIC CHIP	100PF	5.00%	30 V
		<capacitor></capacitor>				C8209	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
						C8210	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8103	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C8211	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%	25V
C8104	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C8212	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C8105	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C8213	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C8106	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V						
C8107	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C8218	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C8108	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V						
C8109	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%				<connector></connector>			
C8110	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%							
C8111	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		CN8100	1-793-867-11	PIN, CONNECTOR	R (PC BOR	(AD) 10P	
C8112	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V	CN8101	1-793-867-11	PIN, CONNECTO	R (PC BOR	(AD) 10P	
C0116	1 164 161 11	CERAMIC CHIP	0.0022UF	10.000/	50V						
C8116 C8117	1-164-161-11 1-126-382-11	ELECT	100UF		16V			<ferrite bead<="" td=""><td>)></td><td></td><td></td></ferrite>)>		
C8117	1-127-532-11	ELECT	47UF	20.00%				VI LIGHTL BLAD			
C8119	1-126-795-11	ELECT	10UF	20.00%	25V	FB8100	1-216-295-91	SHORT	0		
C8120	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	FB8101	1-216-295-91	SHORT	0		
						FB8102	1-216-295-91	SHORT	0		
C8121	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V	FB8103	1-216-295-91	SHORT	0		
C8122	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V	FB8104	1-414-598-11	FERRITE	0UH		
C8123 C8124	1-127-532-11 1-163-021-91	ELECT CERAMIC CHIP	47UF 0.01UF	20.00% 10.00%		ED0105	1 216 205 01	SHORT	0		
C8124 C8125	1-163-021-91	CERAMIC CHIP	0.01UF 0.01UF	10.00%		FB8105 FB8106	1-216-295-91 1-414-598-11	FERRITE	0 0UH		
C6123	1-103-021-91	CERAWIC CHIP	0.0101	10.00%	30 V	FB8108	1-414-598-11	FERRITE	0UH		
C8126	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	FB8109	1-414-598-11	FERRITE	0UH		
C8129	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		FB8110	1-414-598-11	FERRITE	0UH		
C8130	1-126-382-11	ELECT	100UF	20.00%	16V						
C8131	1-126-382-11	ELECT	100UF		16V	FB8111	1-414-598-11	FERRITE	0UH		
C8132	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V	FB8112	1-414-598-11	FERRITE	0UH		
C0122	1 162 021 01	CED A MC CUIT	0.01175	10.000	5037	FB8113	1-414-598-11	FERRITE	0UH		
C8133	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		FB8114	1-414-598-11	FERRITE	OUH		
C8134 C8135	1-164-004-11 1-126-382-11	CERAMIC CHIP ELECT	0.1UF 100UF	10.00% 20.00%	25V 16V	FB8115	1-414-598-11	FERRITE	0UH		
C8135	1-120-382-11	CERAMIC CHIP	1000F 100PF	5.00%	50V	FB8116	1-414-598-11	FERRITE	0UH		
C8130 C8137	1-163-251-11	CERAMIC CHIP	100FF	5.00%	50V	FB8117	1-414-598-11	FERRITE	0UH		
-5.01		, OIII		2.3070		FB8118	1-414-598-11	FERRITE	0UH		
C8138	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	FB8119	1-414-598-11	FERRITE	0UH		
C8139	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	FB8120	1-414-598-11	FERRITE	0UH		
C8140	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V						

KV-ES38M31/ES38M61/ES38M90/ES38M91

AI	B 3										
REF NO.	PART NO.	DESCRIPTION		REMAR	<u>kK</u>	REF NO.	PART NO.	DESCRIPTION		REMAR	<u>RK</u>
FB8121	1-414-598-11	FERRITE	0UH			R8147 R8148	1-216-295-91 1-216-295-91	SHORT SHORT	0		
		<filter></filter>				R8149 R8155	1-216-037-00 1-216-295-91	RES-CHIP SHORT	330 0	5%	1/10W
FL8100	1-234-177-21	FILTER, CHIP EM	I			R8157	1-216-037-00	RES-CHIP	330	5%	1/10W
FL8101	1-234-177-21	FILTER, CHIP EM	I			R8158	1-216-037-00	RES-CHIP	330	5%	1/10W
FL8102	1-234-177-21	FILTER, CHIP EM	I			R8161	1-216-025-11	RES-CHIP	100	5%	1/10W
						R8168	1-216-025-11	RES-CHIP	100	5%	1/10W
		<ic></ic>				R8169 R8170	1-216-097-11 1-216-121-11	RES-CHIP	100K 1M	5% 5%	1/10W
IC8102	8-759-576-72	LF50CDT-TR				R8171	1-216-025-11	RES-CHIP RES-CHIP	100	5%	1/10W 1/10W
IC8102	8-759-579-68	AK4524				R8172	1-216-025-11	RES-CHIP	100	5%	1/10W
IC8104	8-759-542-87	S-80827ANUP-ED	Q								
IC8105	8-759-833-26	IC TC9446F-011				R8173	1-216-025-11	RES-CHIP	100	5%	1/10W
IC8106	8-759-242-70	TC7WU04F				R8200	1-216-073-91	RES-CHIP	10K	5%	1/10W
IC8107	8-759-459-69	S-80743AN-D7				R8201 R8202	1-216-025-11 1-216-065-91	RES-CHIP RES-CHIP	100 4.7K	5% 5%	1/10W 1/10W
100107	0-737-437-07	3-00/ 1 3/A(1-D/				R8203	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
		<chip conduct<="" td=""><td>OR></td><td></td><td></td><td>R8204</td><td>1-216-073-91</td><td>RES-CHIP</td><td>10K</td><td>5%</td><td>1/10W</td></chip>	OR>			R8204	1-216-073-91	RES-CHIP	10K	5%	1/10W
						R8205	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
JR8102	1-216-295-91	SHORT	0			R8206	1-216-049-11	RES-CHIP	1K	5%	1/10W
JR8103	1-216-295-91	SHORT	0			R8207	1-216-077-91	RES-CHIP	15K	5%	1/10W
		<coil></coil>						<crystal></crystal>			
						X8102	1-781-041-11	VIBRATOR, CRYS	STAI		
L8100	1-412-026-11	INDUCTOR	1UH			70102	1 701 041 11	VIDION ON, CIVI	717 IL		
L8101	1-412-026-11	INDUCTOR	1UH								
L8102	1-412-026-11	INDUCTOR	1UH								
L8103	1-412-026-11	INDUCTOR	1UH			******	******	*****	******	******	*****
L8104	1-412-026-11	INDUCTOR	1UH			*	· A-1136-251-A	B3 BOARD COME	PLETE		
7.0407											
L8105	1-412-026-11	INDUCTOR	1UH					******	*****		
L8105	1-412-026-11	INDUCTOR <resistor></resistor>	1UH						*****		
		<resistor></resistor>		5%	1/10W			**************************************	****		
R8101 R8102	1-216-033-00 1-216-061-91		1UH 220 3.3K	5% 5%	1/10W 1/10W	C333	1-216-295-91		0		
R8101	1-216-033-00	<resistor></resistor>	220			C333 C368	1-216-295-91 1-163-021-91	<capacitor></capacitor>		10.00%	50V
R8101 R8102 R8103 R8106	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W	C368 C369	1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF	10.00%	50V
R8101 R8102 R8103	1-216-033-00 1-216-061-91 1-216-061-91	<resistor> RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K	5% 5%	1/10W 1/10W	C368	1-163-021-91 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP</capacitor>	0 0.01UF		
R8101 R8102 R8103 R8106	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W	C368 C369 C372	1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF	10.00% 10.00%	50V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-049-11 1-216-025-11	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 1K 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-126-603-11	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 20.00%	50V 50V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-049-11 1-216-025-11 1-216-025-11	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 1K 100 100	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-126-603-11 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF	10.00% 10.00% 10.00% 20.00% 10.00%	50V 50V 50V 35V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-049-11 1-216-025-11 1-216-025-11 1-216-009-91	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 1K 100 100 22	5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-126-603-11 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 20.00% 10.00%	50V 50V 50V 50V 35V 50V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124	1-216-033-00 1-216-061-91 1-216-057-00 1-216-057-00 1-216-049-11 1-216-025-11 1-216-009-91 1-216-009-91	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 11 100 100 22 22	5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-126-603-11 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF	10.00% 10.00% 10.00% 20.00% 10.00%	50V 50V 50V 35V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 1K 100 100 22 22	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 20.00% 10.00% 10.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 1K 100 100 22 22 22	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-126-603-11 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 20.00% 10.00% 10.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-005-11	<pre><resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor></pre>	220 3.3K 3.3K 2.2K 2.2K 1IK 100 100 22 22 22 22	5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 20.00% 10.00% 10.00% 10.00% 10.00% 20.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-049-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-005-11 1-216-025-11	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 100 100 22 22 22 100 100	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 0.01UF 10UF 10UF	10.00% 10.00% 10.00% 20.00% 10.00% 10.00% 10.00% 20.00% 20.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V 16V 16V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-049-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91	<resistor> RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 100 100 22 22 22 22 100 100 22	5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 20.00% 10.00% 10.00% 10.00% 10.00% 20.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-009-91 1-216-099-91 1-216-099-91	<resistor> RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 100 100 22 22 22 22 100 100 22 0	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF	10.00% 10.00% 10.00% 20.00% 10.00% 10.00% 10.00% 20.00% 20.00% 20.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V 16V 16V 16V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-025-11 1-216-025-11 1-216-025-11 1-216-099-91	<resistor> RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 100 100 22 22 22 22 100 100 22 0 2.2M	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-124-779-00	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF	10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 20.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V 16V 16V 16V 16V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133 R8134	1-216-033-00 1-216-061-91 1-216-057-00 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-025-11 1-216-025-11 1-216-025-11 1-216-029-91 1-216-295-91 1-216-295-91	<pre><resistor> RES-CHIP</resistor></pre>	220 3.3K 3.3K 2.2K 2.2K 1K 100 100 22 22 22 100 100 22 22 0 2.2M	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF	10.00% 10.00% 10.00% 20.00% 10.00% 10.00% 10.00% 20.00% 20.00% 20.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V 16V 16V 16V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-025-11 1-216-025-11 1-216-025-11 1-216-099-91	<resistor> RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 100 100 22 22 22 22 100 100 22 0 2.2M	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-124-779-00	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF	10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 20.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V 16V 16V 16V 16V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133 R8134 R8135 R8137	1-216-033-00 1-216-061-91 1-216-057-00 1-216-057-00 1-216-057-10 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-025-11 1-216-025-11 1-216-025-11 1-216-025-11 1-216-025-11 1-216-025-11 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	<pre><resistor> RES-CHIP SHORT SHORT SHORT SHORT</resistor></pre>	220 3.3K 3.3K 2.2K 2.2K 1K 100 100 22 22 100 100 22 0 2.2M 0 0 0	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF 10UF	10.00% 10.00% 10.00% 20.00% 10.00% 10.00% 10.00% 20.00% 20.00% 20.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V 16V 16V 16V 16V 50V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133 R8134 R8135 R8137	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-025-11 1-216-025-11 1-216-25-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	<pre><resistor> RES-CHIP</resistor></pre>	220 3.3K 3.3K 2.2K 2.2K 1K 100 100 22 22 22 100 100 22 0 2.2M 0 0	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507 C509 C510 C511 C512 C514	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 20.00% 10.00% 10.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V 16V 16V 16V 50V 50V 50V 25V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133 R8134 R8135 R8137	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-25-11 1-216-25-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-099-11	<pre><resistor> RES-CHIP SHORT SHORT SHORT SHORT RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor></pre>	220 3.3K 3.3K 2.2K 2.2K 1K 100 100 22 22 22 100 100 22 0 2.2M 0 0 0 1K 330	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507 C509 C510 C511 C512 C514	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-124-779-00 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 4.7UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 10.00% 10.00% 10.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V 16V 16V 16V 25V 50V 25V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133 R8134 R8135 R8137	1-216-033-00 1-216-061-91 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-025-11 1-216-025-11 1-216-25-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91	<pre><resistor> RES-CHIP</resistor></pre>	220 3.3K 3.3K 2.2K 2.2K 1K 100 100 22 22 22 100 100 22 0 2.2M 0 0	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507 C509 C510 C511 C512 C514	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 20.00% 10.00% 10.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V 16V 16V 16V 50V 50V 50V 25V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133 R8134 R8135 R8137	1-216-033-00 1-216-061-91 1-216-057-00 1-216-057-00 1-216-057-10 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-25-11 1-216-25-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-009-11	<resistor> RES-CHIP SHORT SHORT SHORT SHORT SHORT SHORT RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP RES-CHIP</resistor>	220 3.3K 3.3K 2.2K 2.2K 2.2K 100 100 22 22 22 100 100 22 22 100 100	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507 C509 C510 C511 C512 C514 C515 C516	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-124-779-00 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-164-004-11	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 10.00% 10.00% 10.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V 16V 16V 16V 16V 25V 50V 25V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133 R8134 R8135 R8137 R8138 R8139 R8140 R8141 R8143	1-216-033-00 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-025-11 1-216-025-11 1-216-025-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-037-00 1-216-049-11 1-216-295-91 1-216-295-91	RES-CHIP SHORT SHORT SHORT RES-CHIP SHORT SHORT	220 3.3K 3.3K 2.2K 2.2K 1IK 100 100 22 22 22 100 100 22 0 2.2M 0 0 1K 330 1K 0 0	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507 C509 C510 C511 C512 C514 C515 C516 C517	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-124-779-00 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 10.00% 10.00% 10.00% 10.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V 16V 16V 16V 16V 25V 50V 50V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133 R8134 R8135 R8137 R8138 R8139 R8140 R8141 R8143	1-216-033-00 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-025-11 1-216-025-11 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-037-00 1-216-049-11 1-216-295-91 1-216-295-91 1-216-295-91	RES-CHIP SHORT SHORT	220 3.3K 3.3K 2.2K 2.2K 1K 100 100 22 22 100 100 22 0 2.2M 0 0 0 1K 330 1K 0 0	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507 C509 C510 C511 C512 C514 C515 C516 C517 C518 C519	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-124-779-00 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-038-91	CAPACITOR> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP CERAMIC CHIP	0 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF 0.01UF 0.01UF 0.1UF 0.01UF 0.1UF 0.01UF 0.1UF	10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 10.00% 10.00% 10.00% 10.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V 50V 16V 16V 16V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V
R8101 R8102 R8103 R8106 R8107 R8120 R8121 R8122 R8123 R8124 R8125 R8126 R8127 R8128 R8129 R8131 R8133 R8134 R8135 R8137 R8138 R8139 R8140 R8141 R8143	1-216-033-00 1-216-061-91 1-216-057-00 1-216-057-00 1-216-025-11 1-216-025-11 1-216-009-91 1-216-009-91 1-216-009-91 1-216-025-11 1-216-025-11 1-216-025-11 1-216-025-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-295-91 1-216-037-00 1-216-049-11 1-216-295-91 1-216-295-91	RES-CHIP SHORT SHORT SHORT RES-CHIP SHORT SHORT	220 3.3K 3.3K 2.2K 2.2K 1IK 100 100 22 22 22 100 100 22 0 2.2M 0 0 1K 330 1K 0 0	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C368 C369 C372 C373 C374 C375 C376 C377 C378 C501 C502 C503 C505 C507 C509 C510 C511 C512 C514 C515 C516 C517 C518	1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-124-779-00 1-124-779-00 1-124-779-00 1-124-779-00 1-163-021-91 1-163-021-91 1-163-021-91 1-163-021-91 1-164-004-11 1-163-021-91 1-164-004-11	<capacitor> SHORT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP ELECT CHIP CERAMIC CHIP</capacitor>	0 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 10UF 10UF 10UF 10UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF 0.01UF	10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 10.00% 20.00% 20.00% 10.00% 10.00% 10.00% 10.00% 10.00%	50V 50V 50V 35V 50V 50V 50V 50V 16V 16V 16V 16V 25V 50V 25V 50V 50V



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REF NO.	PART NO.	DESCRIPTION		REMAR	<u>RK</u>	REF NO.	PART NO.	DESCRIPTION		REMAR	₹K
	1 162 029 01	CED AMIC CHIP	0.1115		251/		1 126 206 11	ELECT CHID	100115	20.000	
C522 C523	1-163-038-91 1-163-021-91	CERAMIC CHIP CERAMIC CHIP	0.1UF 0.01UF	10.00%	25V 50V	C632 C633	1-126-206-11	ELECT CHIP CERAMIC CHIP	100UF 0.01UF	20.00%	
C523	1-103-021-91	ELECT CHIP	10UF	20.00%	16V	C033	1-163-021-91	CERAMIC CHIP	0.010F	10.00%	30 V
C324	1-124-779-00	ELECT CIII	1001	20.00 //	10 V	C634	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C525	1-126-394-11	ELECT CHIP	10UF	20.00%	16V	C635	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C526	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C636	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C527	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C637	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C528	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C638	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C529	1-124-779-00	ELECT CHIP	10UF	20.00%	16V						
						C639	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C531	1-124-779-00	ELECT CHIP	10UF	20.00%	16V	C640	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C533 C535	1-124-779-00	ELECT CHIP	10UF	20.00% 10.00%	16V 50V	C642	1-163-021-91	CERAMIC CHIP	0.01UF	10.00% 10.00%	
C536	1-163-021-91 1-163-021-91	CERAMIC CHIP CERAMIC CHIP	0.01UF 0.01UF	10.00%	50 V 50 V	C643 C644	1-163-021-91 1-126-398-11	CERAMIC CHIP ELECT CHIP	0.01UF 4.7UF	20.00%	35V
C537	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C011	1 120 370 11	LLLC1 CIIII	4.701	20.0070	33 1
						C645	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C538	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C801	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C539	1-126-204-11	ELECT CHIP	47UF	20.00%	16V	C802	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C540	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C803	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C542	1-126-204-11	ELECT CHIP	47UF	20.00%	16V	C804	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C543	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V						
05.45	1 126 206 11	EL EGE GIUD	457.75	20.000	1617	C806	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C545	1-126-396-11	ELECT CHIP	47UF	20.00%	16V	C807	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C546 C548	1-163-021-91 1-163-021-91	CERAMIC CHIP CERAMIC CHIP	0.01UF 0.01UF	10.00% 10.00%	50V 50V	C808 C809	1-163-021-91 1-163-021-91	CERAMIC CHIP CERAMIC CHIP	0.01UF 0.01UF	10.00% 10.00%	50V 50V
C549	1-103-021-91	ELECT CHIP	47UF	20.00%	16V	C810	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C550	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C010	1-103-021-71	CERAINIC CIII	0.0101	10.00 /	J0 V
						C811	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C551	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C812	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C554	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C813	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C555	1-163-038-91	CERAMIC CHIP	0.1UF		25V	C814	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C556	1-126-392-11	ELECT CHIP	100UF	20.00%	6.3V	C815	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C557	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V						
0550	1 162 021 01	CED AMIC CUID	0.011115	10.000	5011	C816	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C559 C560	1-163-021-91 1-163-021-91	CERAMIC CHIP CERAMIC CHIP	0.01UF 0.01UF	10.00% 10.00%	50V 50V	C817 C818	1-163-229-11 1-163-229-11	CERAMIC CHIP CERAMIC CHIP	12PF 12PF	5.00% 5.00%	50V 50V
C601	1-103-021-91	ELECT CHIP	10UF	20.00%	16V	C819	1-163-229-11	CERAMIC CHIP	0.01UF	10.00%	50V
C602	1-126-394-11	ELECT CHIP	10UF	20.00%	16V	C820	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C603	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	0020	1 103 021 71	CERC INFIC CITI	0.0101	10.00%	501
						C821	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C604	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C822	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C605	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C823	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C606	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C824	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C607	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C827	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C608	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C829	1 162 021 01	CED AMIC CHID	0.0111E	10.000	501/
C609	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C829 C834	1-163-021-91 1-163-038-91	CERAMIC CHIP CERAMIC CHIP	0.01UF 0.1UF	10.00%	50V 25V
C610	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C835	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C611	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C839	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C612	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C840	1-126-206-11	ELECT CHIP	100UF	20.00%	
C613	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V						
_						C841	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	
C614	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C842	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	
C615	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C843	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	
C616	1-126-396-11	ELECT CHIP	47UF	20.00%	16V	C844	1-163-038-91	CERAMIC CHIP	0.1UF	10.000	25V
C617 C618	1-163-038-91 1-163-038-91	CERAMIC CHIP CERAMIC CHIP	0.1UF 0.1UF		25V 25V	C848	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C016	1-103-036-91	CERAINIC CIII	0.101		23 v	C849	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C619	1-163-038-91	CERAMIC CHIP	0.1UF		25V	C850	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C620	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C851	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	
C621	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C853	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C622	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C854	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C623	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V						
						C901	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C624	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		C902	1-163-038-91	CERAMIC CHIP	0.1UF	10.000	25V
C625	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C903	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C626 C627	1-163-021-91 1-163-021-91	CERAMIC CHIP CERAMIC CHIP	0.01UF 0.01UF	10.00% 10.00%	50V 50V	C904 C905	1-124-779-00 1-109-982-11	ELECT CHIP CERAMIC CHIP	10UF 1UF	20.00% 10.00%	16V 10V
C628	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		2,03	1-107-704-11	CLIMINIC CHIP	101	10.00%	10 4
2020	1 100 021-71	CLIC WINC CITI	0.0101	10.00/0	501	C906	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C629	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C907	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C630	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C908	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C631	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C909	1-126-396-11	ELECT CHIP	47UF	20.00%	16V
						C910	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V



REF NO.	PART NO.	DESCRIPTION		REMAR	K	REF NO.	PART NO.	DESCRIPTION		REMARK
C913	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		IC316	8-759-525-10	TC7SET08F(TE85I		
C913	1-105-021-91	ELECT CHIP	10UF	20.00%		IC501	8-759-447-90	TLC5733AIPM	L)	
C950	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		10301	0-137-441-70	TECS/SSAII W		
C954	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		IC504	8-759-669-78	TLC2933IPWR-12		
						IC505	8-759-640-16	TC7SET04F(TE85I	R	
						IC506	8-759-640-16	TC7SET04F(TE85I	R	
		<connector></connector>				IC601	8-752-398-47	CXD2090Q		
					_	IC602	8-759-836-37	IC MT48LC1M16A	A1TG-6S	
CN502	1-695-302-11	CONNECTOR, BO	ARD TO B	OARD 50.	Р	IC(02 A	0.750 ((0.75	TI COOCOIDUD		
						IC603 △ IC604	8-759-669-75 8-752-072-94	TLC2932IPWR CXA1875AM-T4		
		<diode></diode>				IC801	8-759-672-57	CXD9509AQ		
						IC802	8-759-677-37	MT48LC2M32B2T	G-	
D501	8-719-056-77	UDZ-TE-17-3.9B				IC803	8-759-460-29	PST9120NL		
D601	8-719-404-50	MA111-TX								
						IC901	8-752-367-59	CXD2309Q		
		<ferrite bead=""></ferrite>				IC902	8-759-829-33	IC MB94918RPF-C		
		VIERKITE BEAD				IC903 IC904	6-700-149-01 8-759-349-11	IC M24C04-MN6T PST9145NL	(A)	
FB501	1-414-813-11	FERRITE	0UH			10904	0-739-349-11	F319143INL		
FB502	1-414-813-11		0UH							
FB503	1-414-813-11		0UH					<coil></coil>		
FB504	1-414-813-11	FERRITE	0UH							
FB601	1-414-553-11	FERRITE	0UH			L304	1-412-029-11	INDUCTOR	10UH	
ED OO:		EED D YOU	0.1			L305	1-412-029-11	INDUCTOR	10UH	
FB801	1-414-553-11		0UH			L501	1-412-026-11	INDUCTOR	1UH	
FB802	1-414-553-11	FERRITE	0UH			L502	1-412-026-11	INDUCTOR	1UH	
						L503	1-412-026-11	INDUCTOR	1UH	
		<filter></filter>				L504	1-412-026-11	INDUCTOR	1UH	
						L505	1-412-029-11	INDUCTOR	10UH	
FL306	1-239-558-11	FILTER, CHIP EM	I			L506	1-412-026-11	INDUCTOR	1UH	
FL501	1-233-877-11					L508	1-412-029-11	INDUCTOR	10UH	
FL502	1-233-504-21	FILTER, LOW PAS				L509	1-412-029-11	INDUCTOR	10UH	
FL503	1-233-504-21	FILTER, LOW PAS								
FL504	1-234-177-21	FILTER, CHIP EM	I			L511	1-412-026-11	INDUCTOR	1UH	
FL505	1-234-177-21	FILTER, CHIP EM	ī			L512	1-412-026-11	INDUCTOR	1UH	
FL505	1-234-177-21	FILTER, CHIP EM				L604	1-412-029-11	INDUCTOR INDUCTOR	10UH	
FL508	1-234-177-21					L605	1-412-029-11	INDUCTOR	10UH	
FL509	1-234-177-21	FILTER, CHIP EM								
FL510	1-234-177-21	FILTER, CHIP EM	I					<transistor></transistor>		
FI 511	1 224 177 21	EH EED GIND EN								
FL511	1-234-177-21	FILTER, CHIP EM				Q304	8-729-120-28	2SC1623-L5L6		
FL512 FL601	1-234-177-21	FILTER, CHIP EM				Q501	8-729-216-22	2SA1162-G		
FL602	1-234-177-21	FILTER, CHIP EM				Q502	8-729-120-28	2SC1623-L5L6		
FL603	1-234-177-21	FILTER, CHIP EM				Q503 Q510	8-729-120-28 8-729-120-28	2SC1623-L5L6 2SC1623-L5L6		
						~~~	,, .20 20	22.020 2020		
FL606	1-239-560-11	FILTER, CHIP EM				Q511	8-729-120-28	2SC1623-L5L6		
FL801	1-234-177-21	FILTER, CHIP EM				Q512	8-729-120-28	2SC1623-L5L6		
FL802	1-234-177-21	FILTER, CHIP EM				Q513	8-729-120-28	2SC1623-L5L6		
FL803 FL804	1-234-177-21 1-234-177-21	FILTER, CHIP EM				Q514	8-729-120-28	2SC1623-L5L6		
1 L004	1-454-111-41	TILILIN, CHIE EM				Q515	8-729-120-28	2SC1623-L5L6		
FL806	1-234-177-21	FILTER, CHIP EM	I			Q516	8-729-120-28	2SC1623-L5L6		
FL807	1-234-177-21	FILTER, CHIP EM				Q510 Q517	8-729-120-28	2SC1623-L5L6		
FL808	1-234-177-21	FILTER, CHIP EM				Q518	8-729-216-22	2SA1162-G		
FL901	1-233-878-11	FILTER, LOW PAS				Q519	1-801-806-11	TR DTC144EKA		
FL902	1-233-876-11	FILTER, LOW PAS	S			Q520	1-801-806-11	TR DTC144EKA		
FL903	1-233-876-11	FILTER, LOW PAS	SS			0521	8-720 120 20	28C1623 I 51 6		
FL903	1-234-177-21	FILTER, CHIP EM				Q521 Q522	8-729-120-28 8-729-120-28	2SC1623-L5L6 2SC1623-L5L6		
FL905	1-234-177-21	FILTER, CHIP EM				Q523	8-729-120-28	2SC1623-L5L6		
FL906	1-234-177-21	FILTER, CHIP EM				Q523 Q524	8-729-120-28	2SC1623-L5L6		
FL907	1-234-177-21	FILTER, CHIP EM				Q601	8-729-120-28	2SC1623-L5L6		
		<ic></ic>				Q602	8-729-120-28	2SC1623-L5L6		
		VIC)				Q901	8-729-216-22	2SA1162-G		
IC313	8-759-669-75	TLC2932IPWR				Q902 Q903	8-729-216-22 8-729-216-22	2SA1162-G 2SA1162-G		
IC313	8-759-525-10	TC7SET08F(TE85I	L)			Q903 Q904	8-729-216-22 8-729-028-28	2SK2036(TE85L)		
IC315	8-759-525-10	TC7SET08F(TE85I	*			4001	5,2702020			
					,					



REF NO.	PART NO.	DESCRIPTION		REMAR	RK	REF NO.	PART NO.	DESCRIPTION		REMA	RK
-										-	
Q905	8-729-028-28	2SK2036(TE85L)				R553	1-216-295-91	SHORT	0		
Q906	1-801-806-11	TR DTC144EKA				R554	1-208-750-11	METAL CHIP	47	0.5%	1/10W
Q907	8-729-216-22	2SA1162-G				R555	1-216-077-91	RES-CHIP	15K	5%	1/10W
Q908	8-729-216-22	2SA1162-G				R557	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q909	8-729-216-22	2SA1162-G				R558	1-216-025-11	RES-CHIP	100	5%	1/10W
<b>(</b> , .,											-,
						R559	1-216-077-91	RES-CHIP	15K	5%	1/10W
		<resistor></resistor>				R560	1-208-750-11	METAL CHIP	47	0.5%	1/10W
		\KLSISTOK>				R561	1-216-043-91	RES-CHIP	560	5%	1/10W
R310	1 216 000 01	RES-CHIP	22	5%	1/10W			RES-CHIP		5% 5%	1/10W 1/10W
	1-216-009-91			3%	1/10W	R562	1-216-043-91		560		
R334	1-216-295-91	SHORT	0			R563	1-216-043-91	RES-CHIP	560	5%	1/10W
R339	1-216-295-91	SHORT	0								
R350	1-216-049-11	RES-CHIP	1K	5%	1/10W	R564	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R361	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R565	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						R566	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R362	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R571	1-216-295-91	SHORT	0		
R363	1-216-037-00	RES-CHIP	330	5%	1/10W	R572	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R364	1-216-295-91	SHORT	0								
R365	1-216-047-91	RES-CHIP	820	5%	1/10W	R575	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R366	1-216-049-11	RES-CHIP	1K	5%	1/10W	R576	1-208-756-11	METAL CHIP	82	0.5%	1/10W
11300	1 210 017 11	RES CIM	111	570	1,1011	R577	1-208-750-11	METAL CHIP	47	0.5%	1/10W
D267	1 216 117 00	RES-CHIP	690V	5%	1/10W		1-208-750-11	METAL CHIP	47	0.5%	1/10W
R367	1-216-117-00		680K			R578					
R368	1-216-117-00	RES-CHIP	680K	5%	1/10W	R579	1-216-077-91	RES-CHIP	15K	5%	1/10W
R369	1-216-295-91	SHORT	0								
R371	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R580	1-216-295-91	SHORT	0		
R372	1-216-009-91	RES-CHIP	22	5%	1/10W	R582	1-216-041-00	RES-CHIP	470	5%	1/10W
						R584	1-216-041-00	RES-CHIP	470	5%	1/10W
R373	1-216-066-00	RES-CHIP	5.1K	5%	1/10W	R586	1-216-049-11	RES-CHIP	1K	5%	1/10W
R501	1-216-025-11	RES-CHIP	100	5%	1/10W	R587	1-216-049-11	RES-CHIP	1K	5%	1/10W
R502	1-216-025-11	RES-CHIP	100	5%	1/10W						-,
R503	1-216-295-91	SHORT	0	5 70	1,1011	R589	1-216-049-11	RES-CHIP	1K	5%	1/10W
R504	1-216-295-91	SHORT	0			R590	1-216-049-11	RES-CHIP	1K	5%	1/10W
K304	1-210-293-91	SHOKI	U								
D. 50.5	4 24 6 20 7 04	arronm.				R591	1-216-049-11	RES-CHIP	1K	5%	1/10W
R505	1-216-295-91	SHORT	0			R592	1-216-049-11	RES-CHIP	1K	5%	1/10W
R506	1-216-009-91	RES-CHIP	22	5%	1/10W	R594	1-216-041-00	RES-CHIP	470	5%	1/10W
R507	1-216-009-91	RES-CHIP	22	5%	1/10W						
R508	1-216-025-11	RES-CHIP	100	5%	1/10W	R596	1-216-049-11	RES-CHIP	1K	5%	1/10W
R509	1-216-025-11	RES-CHIP	100	5%	1/10W	R597	1-216-073-91	RES-CHIP	10K	5%	1/10W
						R598	1-216-025-11	RES-CHIP	100	5%	1/10W
R510	1-216-043-91	RES-CHIP	560	5%	1/10W	R600	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R511	1-216-043-91	RES-CHIP	560	5%	1/10W	R601	1-216-073-91	RES-CHIP	10K	5%	1/10W
R511	1-216-043-91	RES-CHIP	560	5%	1/10W	Kooi	1-210-075-71	KL5-CIII	101	370	1/10 **
R512 R513		RES-CHIP		5% 5%		D(02	1 216 072 01	DEC CHID	1017	E 01	1/10337
	1-216-043-91		560		1/10W	R602	1-216-073-91	RES-CHIP	10K	5%	1/10W
R514	1-216-043-91	RES-CHIP	560	5%	1/10W	R603	1-216-073-91	RES-CHIP	10K	5%	1/10W
						R604	1-216-033-00	RES-CHIP	220	5%	1/10W
R515	1-216-043-91	RES-CHIP	560	5%	1/10W	R605	1-216-295-91	SHORT	0		
R516	1-216-049-11	RES-CHIP	1K	5%	1/10W	R608	1-216-295-91	SHORT	0		
R517	1-216-049-11	RES-CHIP	1K	5%	1/10W						
R518	1-216-295-91	SHORT	0			R609	1-216-073-91	RES-CHIP	10K	5%	1/10W
R520	1-208-776-11	METAL CHIP	560	0.5%	1/10W	R610	1-216-033-00	RES-CHIP	220	5%	1/10W
					,	R611	1-216-073-91	RES-CHIP	10K	5%	1/10W
R521	1-216-295-91	SHORT	0			R613	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R523	1-208-776-11	METAL CHIP	560	0.5%	1/10W	R615	1-216-089-91	RES-CHIP	47K	5%	1/10W
R523 R524	1-216-295-91	SHORT	0	0.5/0	1/10 **	1013	1 210-007-71	ALS CIII	T/1X	5 /0	1/10 **
				0.50	1/10337	D(16	1 016 072 01	DEC CIUD	1017	5.01	1/10337
R526	1-208-776-11	METAL CHIP	560	0.5%	1/10W	R616	1-216-073-91	RES-CHIP	10K	5%	1/10W
R528	1-216-037-00	RES-CHIP	330	5%	1/10W	R617	1-216-295-91	SHORT	0		
						R619	1-216-073-91	RES-CHIP	10K	5%	1/10W
R529	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	R621	1-216-295-91	SHORT	0		
R530	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	R622	1-216-295-91	SHORT	0		
R531	1-216-031-00	RES-CHIP	180	5%	1/10W						
R532	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	R623	1-216-295-91	SHORT	0		
R533	1-216-031-00	RES-CHIP	180	5%	1/10W	R624	1-216-295-91	SHORT	0		
				- 10	-, - 0	R625	1-216-295-91	SHORT	0		
R534	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R626	1-216-293-91	RES-CHIP	10K	5%	1/10W
										570	1/10 99
R535	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R628	1-216-295-91	SHORT	0		
R536	1-216-049-11	RES-CHIP	1K	5%	1/10W	D. (		ppg	40	<b>.</b>	41.00-
R537	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W	R629	1-216-073-91	RES-CHIP	10K	5%	1/10W
R540	1-216-049-11	RES-CHIP	1K	5%	1/10W	R631	1-216-295-91	SHORT	0		
						R634	1-216-295-91	SHORT	0		
R548	1-208-750-11	METAL CHIP	47	0.5%	1/10W	R635	1-216-295-91	SHORT	0		
R549	1-208-750-11	METAL CHIP	47	0.5%	1/10W	R638	1-216-295-91	SHORT	0		
R550	1-208-756-11	METAL CHIP	82	0.5%	1/10W						
R551	1-208-756-11	METAL CHIP	82	0.5%	1/10W	R639	1-216-019-00	RES-CHIP	56	5%	1/10W
R552	1-208-750-11	METAL CHIP	47	0.5%	1/10W	R640	1-216-009-91	RES-CHIP	22	5%	1/10W
11.004	1 200 /20-11	L I. IL CIIII	17	0.5 /0	1,1011	11070	1 210 007-71	ALS CIIII		5 /0	1,10 **



R	EF NO.	PART NO.	DESCRIPTION		REMAR	<u>ak</u>	REF NO.	PART NO.	DESCRIPTION		REMAI	<u>RK</u>
	.642 .643	1-216-295-91 1-216-295-91	SHORT SHORT	0 0			R827 R831	1-216-607-11 1-216-295-91	METAL CHIP SHORT	15 0	0.5%	1/10W
	.645	1-216-295-91	SHORT	0								
			arronm.				R832	1-216-295-91	SHORT	0		
	.651	1-216-295-91	SHORT	0	T 01	1 /1 0117	R833	1-216-295-91	SHORT	0	0.50	1 /1 0337
	.653	1-216-025-11	RES-CHIP	100	5%	1/10W	R834	1-208-760-11	METAL CHIP	120	0.5%	1/10W
	654	1-216-033-00	RES-CHIP	220	5%	1/10W	R835	1-208-755-11	METAL CHIP	75 22	0.5%	1/10W
	.655	1-216-295-91	SHORT	0	T 01	1/1011	R836	1-211-960-11	METAL CHIP	22	0.5%	1/10W
K	.657	1-216-009-91	RES-CHIP	22	5%	1/10W	R844	1-216-017-91	RES-CHIP	47	5%	1/10W
R	.658	1-216-049-11	RES-CHIP	1K	5%	1/10W	R845	1-216-017-91	RES-CHIP	47	5%	1/10W
R	.659	1-216-025-11	RES-CHIP	100	5%	1/10W	R846	1-216-017-91	RES-CHIP	47	5%	1/10W
R	.660	1-216-025-11	RES-CHIP	100	5%	1/10W	R847	1-216-017-91	RES-CHIP	47	5%	1/10W
	.661	1-216-025-11	RES-CHIP	100	5%	1/10W	R848	1-216-017-91	RES-CHIP	47	5%	1/10W
R	.664	1-216-009-91	RES-CHIP	22	5%	1/10W	R849	1-216-017-91	RES-CHIP	47	5%	1/10W
D	665	1 216 025 00	DEC CHID	270	501	1/10W			RES-CHIP	47	5%	1/10W 1/10W
	.665 .666	1-216-035-00 1-216-646-11	RES-CHIP METAL CHIP	620	5% 0.5%	1/10W 1/10W	R850 R851	1-216-017-91 1-216-017-91	RES-CHIP	47 47	5%	1/10W 1/10W
		1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W 1/10W	R852	1-216-017-91	RES-CHIP	22	5%	1/10W 1/10W
	.667 .668	1-206-794-11	RES-CHIP	3.3K 22	5%	1/10W 1/10W	R853	1-216-009-91	RES-CHIP	22	5%	1/10W 1/10W
	.670	1-216-295-91	SHORT	0	370	1/10 <b>vv</b>	Koss	1-210-009-91	RES-CHIF	22	370	1/10 W
							R854	1-216-009-91	RES-CHIP	22	5%	1/10W
R	.671	1-216-073-91	RES-CHIP	10K	5%	1/10W	R855	1-216-009-91	RES-CHIP	22	5%	1/10W
R	.672	1-216-073-91	RES-CHIP	10K	5%	1/10W	R856	1-216-009-91	RES-CHIP	22	5%	1/10W
R	.673	1-216-073-91	RES-CHIP	10K	5%	1/10W	R857	1-216-009-91	RES-CHIP	22	5%	1/10W
R	674	1-216-073-91	RES-CHIP	10K	5%	1/10W	R858	1-216-009-91	RES-CHIP	22	5%	1/10W
R	.675	1-216-073-91	RES-CHIP	10K	5%	1/10W						
	·= ·	4.044.050.04	DEG GIVE	4077	# cv	4 (4 0777	R859	1-216-009-91	RES-CHIP	22	5%	1/10W
	.676	1-216-073-91	RES-CHIP	10K	5%	1/10W	R860	1-216-009-91	RES-CHIP	22	5%	1/10W
	.677	1-216-073-91	RES-CHIP	10K	5%	1/10W	R861	1-216-009-91	RES-CHIP	22	5%	1/10W
	.678	1-216-073-91	RES-CHIP	10K	5%	1/10W	R862	1-216-009-91	RES-CHIP	22	5%	1/10W
	679	1-216-073-91	RES-CHIP	10K	5%	1/10W	R863	1-216-009-91	RES-CHIP	22	5%	1/10W
K	.680	1-216-073-91	RES-CHIP	10K	5%	1/10W	D064	1 216 017 01	DEC CHID	47	501	1/10W/
D	601	1 216 072 01	DEC CHID	101/	501	1/10W	R864	1-216-017-91	RES-CHIP	47	5% 5%	1/10W
	.681 .682	1-216-073-91 1-216-073-91	RES-CHIP RES-CHIP	10K 10K	5% 5%	1/10W 1/10W	R865 R866	1-216-017-91 1-216-017-91	RES-CHIP RES-CHIP	47 47	5% 5%	1/10W 1/10W
	.683		RES-CHIP	10K 10K	5% 5%	1/10W 1/10W		1-216-017-91	RES-CHIP		5% 5%	1/10W 1/10W
	.684	1-216-073-91 1-216-073-91	RES-CHIP	10K 10K	5%	1/10W 1/10W	R867 R868	1-216-017-91	RES-CHIP	47 47	5%	1/10W 1/10W
	.685	1-216-073-91	RES-CHIP	10K 10K	5%	1/10W 1/10W	Kouo	1-210-017-91	кез-спіг	47	3%	1/10 W
K	.003	1-210-073-91	KE3-CIIII	101	3 /0	1/10 W	R869	1-216-017-91	RES-CHIP	47	5%	1/10W
P	.686	1-216-073-91	RES-CHIP	10K	5%	1/10W	R870	1-216-017-91	RES-CHIP	47	5%	1/10W
	.687	1-216-295-91	SHORT	0	370	1/10**	R871	1-216-017-91	RES-CHIP	47	5%	1/10W
	.688	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R872	1-216-017-91	RES-CHIP	47	5%	1/10W
	.689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R873	1-216-017-91	RES-CHIP	47	5%	1/10W
	.690	1-216-295-91	SHORT	0	570	1,10	1075	1 210 017 71	1125 6111	.,	570	1,10
							R874	1-216-017-91	RES-CHIP	47	5%	1/10W
	.691	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R875	1-216-017-91	RES-CHIP	47	5%	1/10W
	.692	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R876	1-216-017-91	RES-CHIP	47	5%	1/10W
	.693	1-216-009-91	RES-CHIP	22	5%	1/10W	R877	1-216-017-91	RES-CHIP	47	5%	1/10W
	694	1-216-295-91	SHORT	0	# cv	4 (4 0777	R878	1-216-017-91	RES-CHIP	47	5%	1/10W
R	.695	1-216-047-91	RES-CHIP	820	5%	1/10W	R879	1-216-017-91	RES-CHIP	47	5%	1/10W
P	.696	1-216-049-11	RES-CHIP	1K	5%	1/10W	R880	1-216-009-91	RES-CHIP	22	5%	1/10W
	.697	1-216-117-00	RES-CHIP	680K	5%	1/10W	R881	1-216-009-91	RES-CHIP	22	5%	1/10W
	.698	1-216-117-00	RES-CHIP	680K	5%	1/10W	R882	1-216-009-91	RES-CHIP	22	5%	1/10W
	.699	1-216-295-91	SHORT	0	370	1/10**	R883	1-216-009-91	RES-CHIP	22	5%	1/10W
	.801	1-216-009-91	RES-CHIP	22	5%	1/10W	Roos	1 210 007 71	KES CIIII	22	370	1/10 **
						,	R884	1-216-009-91	RES-CHIP	22	5%	1/10W
R	.802	1-216-009-91	RES-CHIP	22	5%	1/10W	R885	1-216-009-91	RES-CHIP	22	5%	1/10W
R	.804	1-216-073-91	RES-CHIP	10K	5%	1/10W	R886	1-216-009-91	RES-CHIP	22	5%	1/10W
R	.806	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	R887	1-216-009-91	RES-CHIP	22	5%	1/10W
R	.807	1-208-778-11	METAL CHIP	680	0.5%	1/10W	R888	1-216-009-91	RES-CHIP	22	5%	1/10W
R	.813	1-216-295-91	SHORT	0			D000					
г	014	1 216 072 01	DEC CIUD	1017	501	1/10337	R889	1-216-295-91	SHORT	0	501	1/1037
	814	1-216-073-91	RES-CHIP	10K	5%	1/10W	R890	1-216-009-91	RES-CHIP	22	5%	1/10W
	815	1-216-073-91	RES-CHIP	10K	5%	1/10W	R891	1-216-017-91	RES-CHIP	47	5%	1/10W
	.816 .817	1-216-073-91	RES-CHIP RES-CHIP	10K	5%	1/10W 1/10W	R892	1-216-017-91	RES-CHIP	47 47	5%	1/10W
	.817	1-216-017-91 1-216-073-91	RES-CHIP	47 10K	5% 5%	1/10W 1/10W	R893	1-216-017-91	RES-CHIP	47	5%	1/10W
K	.023	1 210-013-71	ALO CIII	1011	5 /0	1/10 **	R894	1-216-017-91	RES-CHIP	47	5%	1/10W
R	824	1-216-073-91	RES-CHIP	10K	5%	1/10W	R895	1-216-017-91	RES-CHIP	47	5%	1/10W
	825	1-208-760-11	METAL CHIP	120	0.5%	1/10W	R896	1-216-017-91	RES-CHIP	47	5%	1/10W
	.826	1-208-758-11	METAL CHIP	100	0.5%	1/10W	R897	1-216-017-91	RES-CHIP	47	5%	1/10W
							R898	1-216-017-91	RES-CHIP	47	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMAI	RK	REF NO.	PART NO.	DESCRIPTION		REMA	RK
D000	1 216 072 01	DEC CHIP	1077	Ent	1/10337	D2002	1 200 754 14	METAL CUID	60	0.50	1/10337
R899	1-216-073-91	RES-CHIP	10K	5%	1/10W	R2802	1-208-754-11	METAL CHIP	68	0.5%	1/10W
R901	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	R2803	1-216-603-11	METAL CHIP	10	0.5%	1/10W
R902	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W	R2804	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R903	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W	R2805	1-208-755-11	METAL CHIP	75 22	0.5%	1/10W
R904	1-216-635-11	METAL CHIP	220	0.5%	1/10W	R2806	1-211-960-11	METAL CHIP	22	0.5%	1/10W
D005	1 216 625 11	METAL CHID	220	0.501	1/1033/	D2007	1 217 205 01	CHODT	0		
R905	1-216-635-11	METAL CHIP	220	0.5%	1/10W	R2807	1-216-295-91	SHORT	0		
R906	1-216-635-11	METAL CHIP	220	0.5%	1/10W	R2808	1-216-295-91	SHORT	0		
R907	1-216-635-11	METAL CHIP	220	0.5%	1/10W	R2813	1-216-295-91	SHORT SHORT	0		
R908	1-216-635-11	METAL CHIP	220	0.5%	1/10W	R2815	1-216-295-91		0		
R909	1-216-635-11	METAL CHIP	220	0.5%	1/10W	R2817	1-216-295-91	SHORT	0		
R910	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2818	1-216-295-91	SHORT	0		
R910 R911			1K 1K			R2820	1-216-295-91	SHORT	0		
R911	1-216-049-11 1-216-049-11	RES-CHIP RES-CHIP		5% 5%	1/10W 1/10W	R2822	1-216-295-91	SHORT	0		
R914		RES-CHIP	1K			K2022	1-210-293-91	SHOKI	U		
	1-216-065-91		4.7K 4.7K	5% 5%	1/10W 1/10W						
R916	1-216-065-91	RES-CHIP	4./K	3%	1/10W	RB001	1-239-409-11	NETWORK RESIS	STOR (CH	IP) 47	
R923	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	RB002	1-239-409-11	NETWORK RESIS			
		RES-CHIP				RB003	1-239-409-11	NETWORK RESIS			
R924 R926	1-216-073-91 1-216-057-00	RES-CHIP	10K 2.2K	5%	1/10W 1/10W	RB004	1-239-409-11	NETWORK RESIS			
				5%							
R929	1-216-025-11	RES-CHIP	100	5%	1/10W	RB005	1-239-409-11	NETWORK RESIS	STOK (CH	11/4/	
R930	1-216-025-11	RES-CHIP	100	5%	1/10W	RB006	1-239-409-11	NETWORK RESIS	STOR (CU	IP) 47	
R931	1-216-041-00	RES-CHIP	470	5%	1/10W	RB007	1-239-409-11	NETWORK RESIS			
R933	1-216-041-00	RES-CHIP	100	5% 5%	1/10W 1/10W	RB007	1-239-414-11	NETWORK RESIS			
R934	1-216-025-11	RES-CHIP			1/10W 1/10W	RB009	1-239-414-11	NETWORK RESIS	,	/	
			100	5%				NETWORK RESIS			
R935	1-216-073-91	RES-CHIP	10K	5%	1/10W	RB010	1-239-414-11	NEI WORK KESI	STOR (CII	IP) 130	
R936	1-216-041-00	RES-CHIP	470	5%	1/10W	RB011	1-239-414-11	NETWORK RESIS	STOR (CH	IP) 150	
R937	1-216-025-11	RES-CHIP	100	5%	1/10W	RB012	1-239-414-11	NETWORK RESIS			
		RES-CHIP				RB012	1-239-414-11	NETWORK RESIS			
R938 R940	1-216-025-11		100	5%	1/10W	RB013	1-239-621-11	NETWORK RESIS			
	1-216-295-91	SHORT	0			RB014					
R941	1-216-295-91	SHORT	0	E 01	1/10337	KBUIS	1-239-621-11	NETWORK RESIS	STOR (CII	IP) 22	
R942	1-216-037-00	RES-CHIP	330	5%	1/10W	RB016	1-239-621-11	NETWORK RESIS	CTOD (CII	ID) 22	
R943	1-216-033-00	RES-CHIP	220	5%	1/10W	RB017	1-239-621-11	NETWORK RESIS			
R943	1-216-295-91	SHORT	0	370	1/10 W	RB017	1-239-621-11	NETWORK RESIS			
		SHORT	0			RB019	1-239-021-11	NETWORK RESIS			
R945	1-216-295-91	RES-CHIP		501	1/10W/	RB020	1-239-409-11	NETWORK RESIS			
R951 R952	1-216-057-00 1-216-057-00	RES-CHIP	2.2K 2.2K	5% 5%	1/10W 1/10W	KD020	1-239-409-11	NET WORK KESI	эток (сп	IF) 4/	
K932	1-210-037-00	кез-спіг	2.2K	370	1/10 W	RB021	1-239-409-11	NETWORK RESIS	стор (СП	ID) 47	
R956	1-216-089-91	RES-CHIP	47K	5%	1/10W	RB022	1-239-409-11	NETWORK RESIS			
R957	1-216-635-11	METAL CHIP	220	0.5%	1/10W	RB023	1-239-409-11	NETWORK RESIS			
R958	1-216-635-11	METAL CHIP	220	0.5%	1/10W	RB024	1-239-409-11	NETWORK RESIS			
R959	1-216-635-11	METAL CHIP	220	0.5%	1/10W 1/10W	RB025	1-239-409-11	NETWORK RESIS			
R960	1-216-635-11	METAL CHIP	220	0.5%	1/10W 1/10W	RD023	1 237 407-11	THE THORK KEON	JION (CII	<i>)</i> =1	
K/00	1-210-033-11	METAL CIII	220	0.5/0	1/10 **	RB026	1-239-409-11	NETWORK RESIS	STOR (CH	IP) 47	
R961	1-216-635-11	METAL CHIP	220	0.5%	1/10W	RB027	1-239-409-11	NETWORK RESIS			
R962	1-216-635-11	METAL CHIP	220	0.5%	1/10W	RB701	1-239-711-91	NETWORK RESIS	,	,	
R979	1-216-295-91	SHORT	0	0.070	-, -0 11	RB702	1-239-711-91	NETWORK RESIS			
R981	1-216-037-00	RES-CHIP	330	5%	1/10W	RB703	1-239-711-91	NETWORK RESIS	`	,	
R982	1-216-037-00	RES-CHIP	330	5%	1/10W	1703	07 (11 )1	OIM REDI	(C11		
1.702	1 210 037 00	-125 01111	230	270	2, 2011	RB704	1-239-711-91	NETWORK RESIS	STOR (CH	IP) 0	
R983	1-216-089-91	RES-CHIP	47K	5%	1/10W	RB705	1-239-711-91	NETWORK RESIS			
R984	1-216-061-91	RES-CHIP	3.3K	5%	1/10W	RB706	1-239-711-91	NETWORK RESIS			
R985	1-216-113-00	RES-CHIP	470K	5%	1/10W	1.2.,00	- 20, /11 /1		(011	, 0	
R986	1-216-061-91	RES-CHIP	3.3K	5%	1/10W						
R987	1-216-049-11	RES-CHIP	1K	5%	1/10W			<crystal></crystal>			
2001	. 2.0 079 11	-125 01111		2 70	2, 2011						
R988	1-216-033-00	RES-CHIP	220	5%	1/10W	X802	1-795-112-21	VIBRATOR, CRY	STAL		
R989	1-216-081-00	RES-CHIP	22K	5%	1/10W	X901	1-760-014-11	VIBRATOR, CER.			
R990	1-216-113-00	RES-CHIP	470K	5%	1/10W	1		,	-		
R991	1-216-295-91	SHORT	0	270	2,2011						
R993	1-216-089-91	RES-CHIP	47K	5%	1/10W						
					,	*******	*******	******	*****	*****	*****
R994	1-216-033-00	RES-CHIP	220	5%	1/10W						
R995	1-216-033-00	RES-CHIP	220	5%	1/10W						
R996	1-216-037-00	RES-CHIP	330	5%	1/10W						
R998	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R2801	1-208-760-11	METAL CHIP	120	0.5%	1/10W						
			-								



L												
	REF NO.	PART NO.	DESCRIPTION		REMAR	K	REF NO.	PART NO.	DESCRIPTION		REMAI	RK
	*	A-1136-252-A	BC4 COMPLETE	:			C2072 C2074	1-163-237-11 1-163-038-91	CERAMIC CHIP CERAMIC CHIP	27PF 0.1UF	5.00%	50V 25V
		3-350-679-01	WASHER, FIBER				C2075 C2078 C2079 C2080	1-163-038-91 1-126-947-11 1-163-031-91 1-163-031-91	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	0.1UF 47UF 0.01UF 0.01UF	20.00%	25V 16V 50V 50V
			<capacitor></capacitor>				C2095	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
	C2003	1-163-031-91	CERAMIC CHIP	0.01UF		50V	C2096	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
	C2005	1-163-131-00	CERAMIC CHIP	390PF	5.00%	50V	C2097	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
	C2006	1-163-038-91	CERAMIC CHIP	0.1UF		25V						
	C2010 C2011	1-163-102-00	CERAMIC CHIP	24PF	5.00% 5.00%	50V 50V			<connector></connector>			
	C2011	1-163-102-00	CERAMIC CHIP	24PF	3.00%	30 V			CONNECTOR>			
	C2015	1-165-319-11	CERAMIC CHIP	0.1UF		50V	CN2001 *	1-793-685-11	PIN, CONNECTOR	R (PC BOA	RD) 15P	
	C2016	1-165-319-11	CERAMIC CHIP	0.1UF		50V						
	C2017 C2018	1-165-319-11	CERAMIC CHIP CERAMIC CHIP	0.1UF 0.1UF		50V 50V			<ferrite bead<="" td=""><td></td><td></td><td></td></ferrite>			
	C2018	1-165-319-11 1-163-038-91	CERAMIC CHIP	0.1UF		25V			CIERRITE BEAD.	2		
	C2021	1 103 030 71	CERCITATION CITI	0.101		23 (	FB2002	1-414-234-22	FERRITE	0UH		
	C2024	1-216-295-91	SHORT	0			FB2008	1-414-234-22	FERRITE	0UH		
	C2029	1-165-319-11	CERAMIC CHIP	0.1UF		50V	FB2009	1-414-234-22	FERRITE	0UH		
	C2030	1-165-319-11	CERAMIC CHIP	0.1UF		50V	FB2010	1-414-234-22	FERRITE	0UH		
	C2031 C2032	1-165-319-11 1-165-319-11	CERAMIC CHIP CERAMIC CHIP	0.1UF 0.1UF		50V 50V	FB2011	1-414-234-22	FERRITE	0UH		
	C2032	1-103-317-11	CERAMIC CIII	0.101		30 V	FB2012	1-414-234-22	FERRITE	0UH		
	C2033	1-165-319-11	CERAMIC CHIP	0.1UF		50V	FB2014	1-414-234-22	FERRITE	0UH		
	C2034	1-165-319-11	CERAMIC CHIP	0.1UF		50V	FB2015	1-414-234-22	FERRITE	0UH		
	C2035	1-165-319-11	CERAMIC CHIP	0.1UF		50V	FB2016	1-414-234-22	FERRITE	0UH		
	C2036 C2037	1-165-319-11 1-126-947-11	CERAMIC CHIP ELECT	0.1UF 47UF	20.00%	50V 16V	FB2017	1-414-234-22	FERRITE	0UH		
	C2031	1-120-747-11	LLLCI	4701	20.00 /	10 V						
	C2038	1-165-319-11	CERAMIC CHIP	0.1UF		50V			<filter></filter>			
	C2039	1-165-319-11	CERAMIC CHIP	0.1UF		50V	EL 2001	1 220 040 11	EHEED LOWDA	10		
	C2040 C2041	1-165-319-11 1-126-924-11	CERAMIC CHIP ELECT	0.1UF 330UF	20.00%	50V 6.3V	FL2001 FL2002	1-239-848-11 1-239-848-11	FILTER, LOW PAS FILTER, LOW PAS			
	C2041	1-120-924-11	CERAMIC CHIP	0.1UF	20.00%	50V	FL2002	1-239-848-11	FILTER, LOW PAS			
							FL2004	1-239-848-11	FILTER, LOW PAS			
	C2044	1-126-947-11	ELECT	47UF	20.00%	16V	FL2005	1-233-736-21	FILTER, EMI			
	C2045	1-163-106-00	CERAMIC CHIP	36PF	5.00%	50V	FL2006	1 222 726 21	EUTED EMI			
	C2046 C2047	1-126-964-11 1-164-505-11	ELECT CERAMIC CHIP	10UF 2.2UF	20.00%	50V 16V	FL2006 FL2007	1-233-736-21 1-233-736-21	FILTER, EMI FILTER, EMI			
	C2048	1-126-964-11	ELECT	10UF	20.00%		1 12007	1 233 730 21	TIETER, EIVII			
	G20.40		DI DOM	47.77	20.000	~ O. T.						
	C2049	1-126-960-11	ELECT	1UF	20.00%	50V			<ic></ic>			
	C2050 C2051	1-163-231-11 1-126-964-11	CERAMIC CHIP ELECT	15PF 10UF	5.00% 20.00%	50V 50V	IC2003	8-759-568-27	MSM514265C-60J	S		
	C2052	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	IC2004	8-759-594-44	UPD64082GF-3BA			
	C2053	1-126-960-11	ELECT	1UF	20.00%	50V	IC2005	8-759-431-14	PQ3TZ53U			
	C2054	1-126-947-11	ELECT	47UF	20.00%	16V						
	C2055	1-126-947-11	ELECT	47UF	20.00%	16V			<coil></coil>			
	C2056	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V						
	C2057	1-163-031-91	CERAMIC CHIP	0.01UF		50V	L2001	1-410-200-31	INDUCTOR	4.7UH		
	C2058	1-163-031-91	CERAMIC CHIP	0.01UF		50V	L2004	1-412-058-11	INDUCTOR	10UH		
	C2059	1-126-947-11	ELECT	47UF	20.00%	16V	L2005 L2006	1-412-058-11 1-412-058-11	INDUCTOR INDUCTOR	10UH 10UH		
	C2060	1-163-031-91	CERAMIC CHIP	0.01UF	20.00 /	50V	L2007	1-412-058-11	INDUCTOR	10UH		
	C2061	1-163-031-91	CERAMIC CHIP	0.01UF		50V						
	C2062	1-126-947-11	ELECT	47UF	20.00%	16V	L2008	1-412-058-11	INDUCTOR	10UH		
	C2063	1-165-319-11	CERAMIC CHIP	0.1UF		50V						
	C2064	1-163-031-91	CERAMIC CHIP	0.01UF		50V			<transistor></transistor>			
	C2065	1-163-031-91	CERAMIC CHIP	0.01UF		50V						
	C2066	1-126-947-11	ELECT	47UF		16V	Q2002	8-729-216-22	2SA1162-G			
	C2067 C2068	1-126-947-11 1-126-947-11	ELECT ELECT	47UF 47UF		16V 16V	Q2003 Q2004	8-729-216-22 8-729-216-22	2SA1162-G 2SA1162-G			
	C2000	1-120-74/-11	LLECI	4/UF	20.00%	10 4	Q2004 Q2005	8-729-422-33	2SD601A-Q-TX			
	C2069	1-163-031-91	CERAMIC CHIP	0.01UF		50V	Q2006	8-729-422-33	2SD601A-Q-TX			
	C2070	1-126-947-11	ELECT	47UF	20.00%	16V	02007	0.700.400.00	200/014 6 777			
	C2071	1-165-319-11	CERAMIC CHIP	0.1UF		50V	Q2007 Q2008	8-729-422-33 8-729-422-33	2SD601A-Q-TX 2SD601A-Q-TX			
							Q2008	0-129-422-33	23D001A-Q-1X			





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REF NO.	PART NO.	DESCRIPTION		REMAI	RK	REF NO.	PART NO.	DESCRIPTION		REMAI	RK
02000	0.720.422.22	200,014,0,00				D2074	1 217 025 11	DEC CHID	100	E Of	1/1037
Q2009	8-729-422-33	2SD601A-Q-TX				R2074 R2075	1-216-025-11 1-216-295-91	RES-CHIP SHORT	100 0	5%	1/10W
Q2010 Q2011	8-729-422-33 8-729-422-33	2SD601A-Q-TX 2SD601A-Q-TX				K2073	1-210-293-91	SHOKI	U		
Q2011	0-129-422-33	23D001A-Q-1A				R2076	1-216-025-11	RES-CHIP	100	5%	1/10W
Q2012	8-729-216-22	2SA1162-G				R2077	1-216-025-11	RES-CHIP	100	5%	1/10W
Q2012	8-729-216-22	2SA1162-G				R2078	1-216-295-91	SHORT	0		,
Q2014	8-729-422-33	2SD601A-Q-TX				R2092	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
Q2015	8-729-422-33	2SD601A-Q-TX				R2093	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
Q2016	8-729-422-33	2SD601A-Q-TX									
						R2104	1-216-295-91	SHORT	0		
Q2018	8-729-216-22	2SA1162-G				R2105	1-216-295-91	SHORT	0		
Q2019	8-729-422-33	2SD601A-Q-TX				R2106	1-216-295-91	SHORT	0		
						R2107 R2108	1-216-295-91 1-216-049-11	SHORT RES-CHIP	0 1K	5%	1/10W
		<resistor></resistor>				K2100	1-210-049-11	KE3-CIIII	IX	3 /0	1/10 VV
		(KESISTOR)				R2110	1-216-295-91	SHORT	0		
R2001	1-216-097-11	RES-CHIP	100K	5%	1/10W	R2112	1-216-295-91	SHORT	0		
R2011	1-216-041-00	RES-CHIP	470	5%	1/10W	R2113	1-216-017-91	RES-CHIP	47	5%	1/10W
R2015	1-216-041-00	RES-CHIP	470	5%	1/10W	R2115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2019	1-216-295-91	SHORT	0			R2116	1-216-295-91	SHORT	0		
R2021	1-216-025-11	RES-CHIP	100	5%	1/10W						
						R2117	1-216-295-91	SHORT	0		
R2027	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2118	1-216-296-11	SHORT	0		
R2028	1-216-049-11	RES-CHIP	1K	5%	1/10W	R2119	1-216-296-11	SHORT	0		
R2029	1-216-043-91	RES-CHIP	560	5%	1/10W	R2200	1-216-296-11	SHORT	0		
R2030	1-216-043-91	RES-CHIP	560	5%	1/10W						
R2031	1-216-067-00	RES-CHIP	5.6K	5%	1/10W			<variable res<="" td=""><td>ISTOR&gt;</td><td></td><td></td></variable>	ISTOR>		
R2032	1-216-067-00	RES-CHIP	5.6K	5%	1/10W			VIIIII IDEE RES	151010		
R2032	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	RV2001	1-223-271-21	RES, ADJ, CERMI	ET 220		
R2034	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R2035	1-216-043-91	RES-CHIP	560	5%	1/10W						
R2036	1-216-649-11	METAL CHIP	820	0.5%	1/10W			<crystal></crystal>			
R2037	1-216-044-00	RES-CHIP	620	5%	1/10W	X2001	1-767-606-11	VIBRATOR, CRYS	STAL		
R2039	1-216-047-91	RES-CHIP	820	5%	1/10W						
R2040	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R2041	1-216-047-91	RES-CHIP	820	5%	1/10W	****	*****	*******	******	******	******
R2042	1-216-075-00	RES-CHIP	12K	5%	1/10W						
R2043	1-216-085-91	RES-CHIP	33K	5%	1/10W	*	· A-1332-227-A	C BOARD MOUN	TED		
R2043	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		11 1002 22, 11	*******			
R2046	1-216-075-00	RES-CHIP	12K	5%	1/10W						
R2047	1-216-085-91	RES-CHIP	33K	5%	1/10W		4-382-854-11	SCREW (M3X10),	P, SW (+)		
R2048	1-216-049-11	RES-CHIP	1K	5%	1/10W						
R2049	1-216-065-91	RES-CHIP	4.7K	5%	1/10W			a i bi armon			
R2050	1-216-017-91	RES-CHIP	47	5%	1/10W			<capacitor></capacitor>			
R2051	1-216-049-11	RES-CHIP	1K	5%	1/10W	C9002	1-163-087-00	CERAMIC CHIP	4PF	0.25PF 5	50W
R2052 R2053	1-216-049-11 1-216-041-00	RES-CHIP RES-CHIP	1K 470	5% 5%	1/10W 1/10W	C9002	1-163-087-00	CERAMIC CHIP	4PF	0.25PF :	
112033	1-210-041-00	KL5-CIIII	7/0	5 10	1/10**	C9003	1-162-114-00	CERAMIC	0.0047UF		2KV
R2054	1-216-041-00	RES-CHIP	470	5%	1/10W	C9005	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	
R2055	1-216-017-91	RES-CHIP	47	5%	1/10W	C9006	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	
R2056	1-216-067-00	RES-CHIP	5.6K	5%	1/10W						
R2057	1-216-049-11	RES-CHIP	1K	5%	1/10W	C9007	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
R2058	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C9008	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	
						C9009	1-163-087-00	CERAMIC CHIP	4PF	0.25PF 5	
R2059	1-216-049-11	RES-CHIP	1K	5%	1/10W	C9010	1-163-087-00	CERAMIC CHIP	4PF	0.25PF 5	
R2060	1-216-025-11	RES-CHIP	100	5%	1/10W	C9011	1-136-207-11	MYLAR	0.047UF	10.00%	250 V
R2061 R2062	1-216-043-91 1-216-105-91	RES-CHIP RES-CHIP	560 220K	5% 5%	1/10W 1/10W	C9012	1-136-207-11	MYLAR	0.047UF	10.00%	250V
R2062 R2063	1-216-105-91	RES-CHIP	220K 47K	5% 5%	1/10W 1/10W	C9012 C9014	1-136-207-11	MYLAR	0.047UF	10.00%	
112003	1-210-009-91	ALD-CIII	<b>T/IX</b>	5/0	1/10 **	C9014 C9015	1-163-087-00	CERAMIC CHIP	4PF	0.25PF :	
R2064	1-216-049-11	RES-CHIP	1K	5%	1/10W	C9018	1-107-961-91	ELECT	10UF	20.00%	
R2066	1-216-033-00	RES-CHIP	220	5%	1/10W	C9019	1-165-319-11	CERAMIC CHIP	0.1UF		50V
R2067	1-216-043-91	RES-CHIP	560	5%	1/10W						
R2069	1-216-645-11	METAL CHIP	560	0.5%	1/10W	C9020	1-107-961-91	ELECT	10UF	20.00%	
R2070	1-216-641-11	METAL CHIP	390	0.5%	1/10W	C9021	1-107-961-91	ELECT	10UF	20.00%	
						C9022	1-101-004-00	CERAMIC	0.01UF		50V
R2071	1-216-067-00	RES-CHIP	5.6K	5%	1/10W	C9023	1-101-004-00	CERAMIC	0.01UF		50V
R2072	1-216-043-91	RES-CHIP	560	5%	1/10W	C9024	1-165-319-11	CERAMIC CHIP	0.1UF		50V
R2073	1-216-049-11	RES-CHIP	1K	5%	1/10W	1					

#### KV-ES38M31/ES38M61/ES38M90/ES38M91 RM-916



REF NO.	PART NO.	DESCRIPTION		REMAR	RK	REF NO.	PART NO.	DESCRIPTION		REMA	RK
C0005	1 104 (52 11	EL ECT	220115	20.000	1677			JED A MIGIGEOD.			
C9025	1-104-653-11	ELECT	220UF	20.00%	16V			<transistor></transistor>			
C9026	1-165-319-11	CERAMIC CHIP	0.1UF		50V	00004	0.500.004.40	2011025175511			
C9027	1-101-004-00	CERAMIC	0.01UF	40.000	50V	Q9001	8-729-026-49	2SA1037AK-T146			
C9028	1-163-017-00	CERAMIC CHIP	0.0047UF		50V	Q9009	8-729-026-49	2SA1037AK-T146			
C9029	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V	Q9010	8-729-026-49	2SA1037AK-T146			
G0020	1 162 017 00	CED AMIC CUID	0.0047115	10.000	5037	Q9011	8-729-026-49	2SA1037AK-T146	)-K		
C9030	1-163-017-00	CERAMIC CHIP	0.0047UF		50V						
C9031	1-162-114-00	CERAMIC	0.0047UF		2KV			ADECICTOR'			
C9032	1-162-116-00	CERAMIC	680PF	10.00%	2KV			<resistor></resistor>			
C9033 C9035	1-107-662-11	ELECT CERAMIC	22UF 0.0047UF	20.00%	250V 2KV	D0001	1 216 050 00	RES-CHIP	2.71/	E 01	1/10W
C9033	1-162-114-00	CERAMIC	0.004/UF		ZK V	R9001 R9004	1-216-059-00 1-216-105-91	RES-CHIP	2.7K 220K	5% 5%	1/10W 1/10W
C9042	1 104 661 01	ELECT	330UF	20.00%	16V	R9004	1-216-103-91	RES-CHIP	10K	5% 5%	1/10W 1/10W
C9042	1-104-661-91	ELECI	330UF	20.00%	10 V	R9000	1-210-073-91	METAL CHIP	2K	0.5%	1/10W 1/10W
						R9007	1-216-085-91	RES-CHIP	33K	5%	1/10W
		<connector></connector>				10000	1-210-003-71	KL5-CIII	33 <b>IX</b>	370	1/10 **
		CONNECTOR				R9012	1-216-049-11	RES-CHIP	1K	5%	1/10W
CN0001 >	* 1-564-512-11	PLUG, CONNECT	MP 0P			R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W
CN9002	1-691-765-11	PLUG (MICRO CO		2) 3P		R9018	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
CN9003	1-695-915-11	TAB (CONTACT)	OTTI LE TOI	() 31		R9019	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
CN9004	1-695-915-11	TAB (CONTACT)				R9021	1-216-295-91	SHORT	0	5 70	1,1011
CN9007	1-785-879-11	CONNECTOR, ON	NE TOUCH			10,021	1 210 2,0 ,1	5110111			
0117007	1 700 077 11	001111201011, 01	12 100011			R9023	1-216-295-91	SHORT	0		
						R9026	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
		<diode></diode>				R9031	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
		21022				R9033	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
D9002	8-719-400-75	MA3091				R9034	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
D9005	8-719-404-50	MA111-TX									,
D9006	8-719-051-85	HSS83TD				R9035	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
D9007	8-719-051-85	HSS83TD				R9036	1-216-049-11	RES-CHIP	1K	5%	1/10W
D9008	8-719-051-85	HSS83TD				R9037	1-240-233-21	METAL OXIDE	100K	5%	3W
						R9038	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
D9009	8-719-908-03	GP08D				R9039	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
D9010	8-719-110-17	RD10ESB2									
D9011	8-719-404-50	MA111-TX				R9041	1-216-049-11	RES-CHIP	1K	5%	1/10W
D9012	8-719-404-50	MA111-TX				R9042	1-216-049-11	RES-CHIP	1K	5%	1/10W
D9013	8-719-404-50	MA111-TX				R9043	1-240-233-21	METAL OXIDE	100K	5%	3W
						R9044	1-240-233-21	METAL OXIDE	100K	5%	3W
						R9047	1-202-557-00	SOLID	220	20%	1/2W
		<ic></ic>									
						R9048	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
IC9001	8-759-360-83	TDA6111Q/N4				R9049	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
IC9002	8-759-360-83	TDA6111Q/N4				R9050	1-249-424-11	CARBON	3.9K	5%	1/4W
IC9003	8-759-360-83	TDA6111Q/N4				R9051	1-202-557-00	SOLID	220	20%	1/2W
						R9052	1-202-557-00	SOLID	220	20%	1/2W
		<jack></jack>				R9053	1-249-424-11	CARBON	3.9K	5%	1/4W
						R9054	1-249-424-11	CARBON	3.9K	5%	1/4W
J9001 △	△ 1-540-071-22	SOCKET, CRT				R9055	1-243-994-91	CEMENTED	820K	5%	0.5W
						R9056	1-219-752-11	CARBON	100K	5%	1/2W
						R9057	1-220-827-91	RESISTOR	560K	5%	1/2W
		<coil></coil>				D0050	1 2/2 004 01	CEMENTED	92017	<b>5</b> 01	0.507
1.000:		DIDITOTO-	2 27 77 -			R9058 R9059	1-243-994-91 1-219-746-11	CAPRON	820K	5% 5%	0.5W
L9001	1-414-158-11	INDUCTOR	2.2UH			R9059 R9061	1-219-746-11	CARBON CARBON	1K 100	5% 5%	1/2W
L9002	1-408-591-11	INDUCTOR	1UH			R9065	1-219-743-11	RES-CHIP	6.8K	5% 5%	1/2W 1/10W
L9003	1-408-591-11	INDUCTOR	1UH			R9068	1-216-101-00	RES-CHIP	150K	5%	1/10W
L9004	1-408-591-11	INDUCTOR	1UH			K9006	1-210-101-00	кез-спіг	130K	370	1/10 W
L9005	1-406-666-21	INDUCTOR	150UH			R9069	1-219-743-11	CARBON	100	5%	1/2W
1 0000	1 410 506 11	INDLICTOR	101111			R9009	1-219-743-11	RES-CHIP	330	5% 5%	1/2 W 1/10W
L9006	1-412-526-11	INDUCTOR	12UH			R9070	1-216-037-00	RES-CHIP	330	5% 5%	1/10W 1/10W
						R9071	1-216-037-00	RES-CHIP	330	5%	1/10W 1/10W
		NEON LAMP				R9072	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
		<neon lamp=""></neon>				1013	1 210-03/-00	ALS CIII	2.211	3 /0	1/10 **
NL9001	1-519-526-11	LAMP, NEON									
NL9001 NL9003	1-519-520-11	GAP, DISCHARG	Е					<variable res<="" td=""><td>ISTOR&gt;</td><td></td><td></td></variable>	ISTOR>		
112/003	1 517 721-11	J. II, DIJCHARO									
						RV9001	1-241-656-11	RES, ADJ, META	L FILM 11	0M	
						RV9002	1-230-641-11	RES, ADJ, META	L GLAZE	2.2M	
						******	**********	********	********	********	*****



REF NO.	PART NO.	DESCRIPTION		REMAR	K	REF NO.	PART NO.	DESCRIPTION		REMAR	RK
					_						
	A-1348-119-A	D BOARD COMPL	LETE (KV-E	ES38M31)	)	C6672	1-104-331-11	CERAMIC	0.0022UF	10.00%	1KV
	A-1348-113-A	D BOARD COMPI	ETE			C6673	1-104-331-11	CERAMIC	0.0022UF	10.00%	1KV
	11 15 10 115 11	(KV-ES38M61/ES3		21/01)		C6674	1-128-527-11	ELECT	330UF	20.00%	
		(K V-E330MU1/E33		51V191)							
		****	****			C6678	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	
						C6679	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
,	* 4-374-846-01	COVER, CAPACIT	OR, CAP T	YPE							
	4-382-854-11	SCREW (M3X10),	P, SW (+)			C6680	1-136-157-00	FILM	0.022UF	5.00%	50V
	4-382-854-21	SCREW (M3X14),	P. SW (+)			C6800	1-126-964-11	ELECT	10UF	20.00%	50V
		, ,	-, (.)			C6801	1-126-960-11	ELECT	1UF	20.00%	
						C6802	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	
						C6803	1-102-129-00	CERAMIC	0.01UF	10.00%	50 V
		<capacitor></capacitor>									
						C6804	1-102-129-00	CERAMIC	0.01UF	10.00%	50V
C6601	1-126-933-11	ELECT	100UF	20.00%	16V	C6805	1-111-087-11	ELECT	330UF	20.00%	25V
C6602	1-129-720-00	FILM	0.033UF	5.00%	630V	C6806	1-107-933-11	ELECT	100UF	20.00%	100V
C6604	1-126-947-11	ELECT	47UF	20.00%	16V	C6808	1-137-401-11	MYLAR	0.22UF	10.00%	100V
						C6809	1-102-074-00	CERAMIC	0.001UF	10.00%	
	1-119-886-51	CERAMIC	470PF	10.00%	250V	C0809	1-102-074-00	CERAMIC	0.00101	10.00 /6	30 V
C6608 △	1-119-886-51	CERAMIC	470PF	10.00%	250V	C(010	1 106 220 00	MVLAD	0.1115	10.00%	10017
						C6810	1-106-220-00	MYLAR	0.1UF		
C6613	1-161-830-00	CERAMIC	0.0047UF	99%	500V	C6811	1-111-087-11	ELECT	330UF	20.00%	
C6614	1-161-830-00	CERAMIC	0.0047UF		500V	C6812	1-130-785-11	MYLAR	0.47UF	10.00%	100V
C6617	1-161-830-00	CERAMIC	0.0047UF		500V	C6813	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6619		CERAMIC	0.0047UF	000/	500V	C6814	1-115-565-11	CERAMIC CHIP	2.2UF	10.00%	10V
	1-161-830-00										
C6621	1-131-940-11	ELECT	1200UF	20%	250V	C6815	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
										5.00%	400V
C6622	1-131-940-11	ELECT	1200UF	20%	250V	C6816	1-137-577-11	FILM	0.068UF		
C6625	1-129-718-00	FILM	0.022UF	5.00%	630V	C6817	1-126-947-11	ELECT	47UF	20.00%	
C6626	1-130-029-00	FILM	8200PF	2.00%	50V	C6818	1-126-960-11	ELECT	1UF	20.00%	50V
C6627	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	C6819	1-126-960-11	ELECT	1UF	20.00%	50V
C6628	1-104-330-91	CERAMIC	470PF	10.00%	1KV						
C0028	1-104-330-91	CERAMIC	4/0FF	10.00%	1K V	C6820	1-102-114-00	CERAMIC	470PF	10.00%	50V
94490	4 40 7 600 04	ET E CE		20.000	45077	C6821	1-106-383-00	MYLAR	0.047UF	10.00%	
C6630	1-107-680-91	ELECT	22UF	20.00%	450V	C6822	1-102-114-00	CERAMIC	470PF	10.00%	
C6631	1-126-964-11	ELECT	10UF	20.00%	50V						
C6632	1-126-963-11	ELECT	4.7UF	20.00%	50V	C6823	1-106-383-00	MYLAR	0.047UF	10.00%	
C6633	1-126-947-11	ELECT	47UF	20.00%	25V	C6826	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6634	1-126-968-11	ELECT	100UF		50V						
C005-	1 120 700 11	ELLCI	10001	20.00 /0	30 1	C6827	1-102-030-00	CERAMIC	330PF	10.00%	500V
06625	1 102 072 00	CEDAMIC	100DE	5 0001	5037	C6828	1-107-364-11	MYLAR	0.01UF	10.00%	200V
C6635	1-102-973-00	CERAMIC	100PF	5.00%	50V	C6829	1-162-115-00	CERAMIC	330PF	10.00%	
C6637	1-109-879-11	CERAMIC	22PF	5.00%	2KV	C6830	1-117-619-11	FILM	1000PF	3.00%	1.2KV
C6638	1-107-906-11	ELECT	10UF	20.00%	50V						
C6639	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V	C6831	1-117-838-21	FILM	8200PF	3.00%	1.5KV
C6640	1-104-330-91	CERAMIC	470PF	10.00%	1KV						
						C6832	1-117-842-21	FILM	12000PF	3.00%	1.5KV
C6641	1-136-189-00	MYLAR	0.1UF	10.00%	250V	C6833	1-127-680-11	FILM MELF	4700PF	2%	100V
C6642	1-126-964-11	ELECT	10UF	20.00%	50V	C6834	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6643		CERAMIC CHIP		5.00%	50V	C6835	1-125-893-11	FILM	680PF	3.00%	1.5KV
	1-163-275-11					C6836	1-127-681-11	FILM MELF	10000PF	2%	100V
C6648	1-126-935-11	ELECT	470UF	20.00%		00000	1 127 001 11		1000011	-,0	100 .
C6649	1-126-933-11	ELECT	100UF	20.00%	16V	C6927	1 125 902 11	EII M	690DE	3.00%	1 5VV
						C6837 C6838	1-125-893-11	FILM FILM	680PF 680PF	3.00%	1.5KV 1.5KV
C6650	1-162-115-00	CERAMIC	330PF	10.00%	1KV		1-125-893-11				
C6651	1-162-115-00	CERAMIC	330PF	10.00%	1KV	C6839	1-126-933-11	ELECT	100UF	20.00%	
C6652	1-110-626-11	ELECT	330UF	20.00%	160V	C6840	1-126-933-11	ELECT	100UF		16V
C6653	1-137-368-11	MYLAR	0.0047UF		50V	C6841	1-115-511-11	FILM	0.12UF	5.00%	250V
C6654	1-126-936-11	ELECT	3300UF		16V						
C003T	1 120 750-11	LLLC1	220001	20.00 /0	10 7	C6842	1-117-673-11	FILM	1.5UF	5.00%	250V
06655	1 106 040 61	EL ECT	100011	20.000	2537	C6843	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	
C6655	1-126-942-61	ELECT	1000UF	20.00%	25V	C6844	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6656	1-136-165-00	FILM	0.1UF	5.00%	50V				0.27UF		250V
C6658	1-126-944-11	ELECT	3300UF		25V	C6845	1-117-664-11	FILM		5.00%	
C6659	1-126-944-11	ELECT	3300UF	20.00%	25V	C6846	1-115-514-11	FILM	0.22UF	5.00%	250V
C6660	1-126-960-11	ELECT	1UF	20.00%	50V						
						C6847	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6661	1-107-888-11	ELECT	47UF	20.00%	25V	C6848	1-113-979-51	FILM	0.047UF	5%	250V
C6662	1-126-947-11	ELECT	47UF		16V	C6849	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
				10.00%		C6850	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	
C6663	1-163-021-91	CERAMIC CHIP	0.01UF			C6851	1-107-639-11	ELECT	47UF	20.00%	
C6664	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		20021	- 10/ 00/ 11		., 01	_0.0070	100 1
C6665	1-126-964-11	ELECT	10UF	20.00%	50V	C(0F2	1 100 220 00	CEDAMIC	470PF	10.000/	50037
						C6853	1-102-228-00	CERAMIC	470PF	10.00%	
C6666		MYLAR	0.01UF	5.00%	50V	C6854	1-126-941-11	ELECT	470UF	20.00%	
	1-137-150-11	MILLAN				C6855	1-123-024-21	ELECT	33UF		160V
C6668			47UF	20.00%	10 V						
C6668 C6669	1-126-947-11	ELECT	47UF 330PF	20.00%		C6856	1-126-971-11	ELECT	470UF	20.00%	50V
C6669	1-126-947-11 1-162-115-00	ELECT CERAMIC	330PF	10.00%	1KV	C6856 C6857				20.00% 10.00%	
C6669 C6670	1-126-947-11 1-162-115-00 1-162-115-00	ELECT CERAMIC CERAMIC	330PF 330PF	10.00% 10.00%	1KV 1KV		1-126-971-11	ELECT	470UF		
C6669	1-126-947-11 1-162-115-00	ELECT CERAMIC	330PF	10.00%	1KV	C6857	1-126-971-11 1-102-228-00	ELECT CERAMIC	470UF 470PF	10.00%	500V
C6669 C6670	1-126-947-11 1-162-115-00 1-162-115-00	ELECT CERAMIC CERAMIC	330PF 330PF	10.00% 10.00%	1KV 1KV		1-126-971-11	ELECT	470UF		500V 500V



REF NO.	PART NO.	DESCRIPTION		REMAR	K	REF NO.	PART NO.	DESCRIPTION		REMARK
			1.50DE			-				-
C6860 C6862	1-162-129-00 1-130-202-00	CERAMIC FILM	150PF 0.022UF	10.00%	2K V 200V	D6623 D6624	8-719-059-23 8-719-510-02	P6KE200AG23 D1NS4		
C6863	1-130-202-00	ELECT	10UF	20.00%	50V	D6625	8-719-310-02	RD13ES-B2		
C0003	1-107-200-11	LLLCI	1001	20.00 /	30 V	D0023	0-717-110-30	RD13E3-B2		
C6864	1-129-898-00	FILM	0.0022UF	5.00%	630V	D6626	8-719-979-64	UF4005PKG23		
C6865	1-130-202-00	FILM	0.022UF		400V	D6628	8-719-063-73	DIODE D1NL20U-7	ΓR	
C6866	1-102-030-00	CERAMIC	330PF	10.00%	500V	D6631	8-719-050-18	D4SBL20U		
C6867	1-130-785-11	MYLAR	0.47UF	10.00%	100V	D6633	8-719-510-12	D10SC4M		
C6868	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	D6634	8-719-060-88	DIODE D4SBS6		
C(9(0	1-107-882-91	ELECT	100UF	20.000	16V	D((25	9 710 110 47	DD10ECD		
C6869 C6870	1-107-882-91	ELECT	470UF	20.00% 20.00%	25V	D6635 D6636	8-719-110-47 8-719-911-19	RD18ESB 1SS119-25		
C6871	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	D6639	8-719-063-73	DIODE D1NL20U-7	ΓR	
C6872	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V	D6640	8-719-110-72	RD30ESB2		
C6874	1-136-165-00	FILM	0.1UF	5.00%	50V	D6641	8-719-109-96	RD6.8ES-B1		
C6875	1-126-947-11	ELECT	47UF	20.00%	16V	D6642	8-719-911-19	1SS119-25		
C6876	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	D6643	8-719-979-64	UF4005PKG23		
C6877	1-126-964-11	ELECT	10UF	20.00%	50V	D6644	8-719-052-92	D10SBS4F		
C6878 C6879	1-126-320-11 1-107-960-11	ELECT ELECT	10UF 4.7UF	20.00% 20.00%	16V 160V	D6650 D6800	8-719-911-19 8-719-110-03	1SS119-25 RD7.5ESB2		
C0679	1-107-900-11	ELECT	4./UF	20.00%	100 V	D0000	6-719-110-03	KD/.JESB2		
C6880	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	D6801	8-719-911-19	1SS119-25		
C6882	1-104-574-11	CERAMIC	0.0047UF	10.00%	2KV	D6803	8-719-510-73	S3L20UF4		
C6883	1-126-965-91	ELECT	22UF	20.00%	50V	D6805	8-719-110-39	RD15ES-B1		
C6884	1-115-565-11	CERAMIC CHIP	2.2UF	10.00%	10V	D6806	8-719-911-19	1SS119-25		
						D6807	8-719-109-68	RD3.6ES-B1		
		<connector></connector>				D6808	8-719-914-43	DAN202K		
		CONTRACTOR				D6809	8-719-908-03	GP08D		
CN6602 /\	*1-508-786-00	PIN, CONNECTOR	2 (5MM PIT	TCH) 2P		D6813	8-719-302-43	EL1Z		
	×1-573-963-11	PIN, CONNECTOR	•			D6814	8-719-018-82	RGP02-20EL-6394		
	*1-691-291-11	PIN, CONNECTOR		- '		D6816	8-719-510-73	S3L20UF4		
		PLUG, CONNECTOR		XD) 31						
	*1-764-333-11 · 1-564-510-11	PLUG, CONNECTO				D6817	8-719-510-73	S3L20UF4		
C110000	1 304 310 11	TEGG, CONTRECT	OR /I			D6820	8-719-970-87	ERA38-06		
CN6608 *	1-564-506-11	PLUG, CONNECTO	OR 3P			D6821	8-719-970-87	ERA38-06		
	1-508-784-21	PIN, CONNECTOR		TCH) 1P		D6822 D6823	8-719-067-18 8-719-911-19	RN4Z 1SS119-25		
CN6610 *	1-508-784-21	PIN, CONNECTOR	R (5MM PIT	TCH) 1P		D0023	0 /17 /11 17	10011/ 23		
CN6611 *	1-508-784-21	PIN, CONNECTOR	R (5MM PIT	TCH) 1P		D6824	8-719-510-73	S3L20UF4		
CN6612 *	1-508-784-21	PIN, CONNECTOR	R (5MM PIT	TCH) 1P		D6825	8-719-914-43	DAN202K		
CN(612 *	· 1-508-784-21	PIN, CONNECTOR	(SMM DIT	CII\ 1D		D6826	8-719-911-19	1SS119-25		
	1-508-784-21	PIN, CONNECTOR								
	1-508-784-21	PIN, CONNECTOR						EEDDAME DE L		
	1-508-784-21	PIN, CONNECTOR		,				<ferrite bead=""></ferrite>		
	1-508-784-21	PIN, CONNECTOR				FB6602	1-239-358-21	FILTER, NOISE		
						FB6603	1-239-358-21	FILTER, NOISE		
CN6800	1-785-802-11	PIN, CONNECTOR	,							
	*1-785-270-12	PIN, DY CONNEC			ND.					
CN6802 CN6810	1-793-495-11 1-785-879-11	CONNECTOR, BO CONNECTOR, ON		OAKD 30	)P			<ic></ic>		
	· 1-508-784-21	PIN, CONNECTOR		TCH) 1P		IC6603	8-749-016-66	MCR5152		
		,,	(-	- /		IC6604	8-759-468-89	TOP209P		
CN6812 *	1-508-784-21	PIN, CONNECTOR	R (5MM PIT	TCH) 1P		IC6606	8-759-450-47	BA05T		
						IC6607	8-749-012-13	DM-58		
		DIODE				IC6800	8-759-192-71	STV9379		
		<diode></diode>				IC(001	0 750 450 05	I M202N		
D6601	8-719-911-19	1SS119-25				IC6801 IC6804	8-759-450-95 8-759-394-36	LM393N BA09T		
D6605	8-719-510-53	D4SB60L				IC6805	8-759-394-35	BA12T		
D6612	8-719-911-55	U05G				IC6806	8-749-013-76	PQ6RD83B		
D6613	8-719-911-55	U05G					, , , , 015 10	<b>~</b> ====================================		
D6614	8-719-110-30	RD12ES-B1								
D6615	8-719-911-19	1SS119-25						<chip conducto<="" td=""><td>OR&gt;</td><td></td></chip>	OR>	
D6616	8-719-911-19 8-719-911-55	U05G				ID 6601	1 216 205 01	СПОРТ	0	
D6617	8-719-911-55	U05G				JR6601 JR6603	1-216-295-91 1-216-295-91	SHORT SHORT	0	
D6618	8-719-404-50	MA111-TX				JR6605	1-216-295-91	SHORT	0	
D6619	8-719-110-30	RD12ES-B1				JR6606	1-216-296-11	SHORT	0	
						JR6607	1-216-295-91	SHORT	0	
D6621	8-719-063-73	DIODE D1NL20U-	TR							
D6622	8-719-979-64	UF4005PKG23								



REF NO.	PART NO.	DESCRIPTION		REMARK	REF NO.	PART NO.	DESCRIPTION		REMA	RK
JR6608	1-216-296-11	SHORT	0		Q6810	8-729-047-60	IRFI830G-LF49			
JR6609	1-216-295-91	SHORT	0		Q6811	1-801-806-11	TR DTC144EKA			
JR6610	1-216-296-11	SHORT	0		Q6812	8-729-043-95	2SC3840(3)			
JR6613	1-216-295-91	SHORT	0		Q6813	8-729-422-33	2SD601A-Q-TX			
JR6802	1-216-296-11	SHORT	0		Q6814	8-729-026-49	2SA1037AK-T146	6-R		
JR6810	1-216-296-11	SHORT	0		Q6815	8-729-045-65	2SA1776TV2Q			
310010	1 210 270 11	biloki	v		Q6816	8-729-140-96	2SD774-34			
					Q6817	8-729-422-33	2SD601A-Q-TX			
		<coil></coil>			Q6817 Q6818	1-801-806-11	TR DTC144EKA			
		COIL>			Q6819	1-801-806-11	TR DTC144EKA			
1.6601	1 410 505 21	INDLICTOR	10UH		Q0619	1-001-000-11	IK DICI44EKA			
L6601	1-412-525-31	INDUCTOR			06920	0.700.400.00	20D(01A O TW			
L6602	1-410-397-21	FERRITE	1.1UH		Q6820	8-729-422-33	2SD601A-Q-TX			
L6603	1-410-397-21	FERRITE	1.1UH		Q6821	8-729-026-49	2SA1037AK-T146			
L6604	1-412-525-31	INDUCTOR	10UH		Q6822	8-729-026-49	2SA1037AK-T146	o-R		
L6605	1-412-525-31	INDUCTOR	10UH		Q6823	8-729-422-33	2SD601A-Q-TX			
L6606	1-412-525-31	INDUCTOR	10UH							
L6607	1-412-519-11	INDUCTOR	3.3UH				<resistor></resistor>			
L6800	1-412-525-31	INDUCTOR	10UH							
L6801	1-406-986-21	INDUCTOR	3.3UH		R6500	1-220-797-11	CEMENTED	0.47	5%	10W
L6802	1-416-775-21	INDUCTOR	1MH		R6600	1-216-295-91	SHORT	0		
					R6602	1-249-417-11	CARBON	1K	5%	1/4W
L6803	1-406-982-11	INDUCTOR	680UH		R6622	1-220-797-11	CEMENTED	0.47	5%	10W
L6804	1-412-519-11	INDUCTOR	3.3UH		R6638	1-240-876-11	CEMENTED	1	5%	15W
L6805	1-412-519-11	INDUCTOR	3.3UH		110020	12.00,011	CDIVIDI (120	•	270	10
L6806	1-412-519-11	INDUCTOR	3.3UH		R6639	1-240-876-11	CEMENTED	1	5%	15W
L6807	1-412-552-11	INDUCTOR	2.2MH		R6641	1-260-131-11	CARBON	470K	5%	1/2W
L0007	1-412-332-11	INDUCTOR	2,2NIII		R6642	1-260-131-11		470K 470K	5%	
1 6000	1 406 674 11	INDLICTOR	2 21/11				CARBON			1/2W
L6808	1-406-674-11	INDUCTOR	3.3MH		R6645	1-202-933-61	FUSIBLE	0.1	10%	1/2W
					R6647	1-215-864-00	METAL OXIDE	150	5%	1 <b>W</b>
		DILOTTO GOLIDI			D ( ( 10			22011	4.07	4 (4777
		<photo coupl<="" td=""><td>ER&gt;</td><td></td><td>R6648</td><td>1-215-481-00</td><td>METAL</td><td>330K</td><td>1%</td><td>1/4W</td></photo>	ER>		R6648	1-215-481-00	METAL	330K	1%	1/4W
					R6649	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
PH6601	8-749-924-35	ON3171-R			R6650	1-215-481-00	METAL	330K	1%	1/4W
PH6602	8-749-924-35	ON3171-R			R6651	1-215-430-00	METAL	2.4K	1%	1/4W
					R6652	1-215-450-00	METAL	16K	1%	1/4W
		<ic link=""></ic>			R6653	1-219-776-11	CARBON	2.2M	10%	1/2W
					R6654	1-216-089-91	RES-CHIP	47K	5%	1/10W
PS6605	1-533-597-41	LINK, IC			R6655	1-216-073-91	RES-CHIP	10K	5%	1/10W
PS6606	1-533-597-41	LINK, IC			R6656	1-215-481-00	METAL	330K	1%	1/4W
PS6607	1-533-597-41	LINK, IC			R6657	1-247-791-91	CARBON	22	5%	1/4W
PS6801	1-532-841-21	LINK, IC			110007	12.,,,,,,,	Cintboll		270	2,
1 50001	1 332 011 21	Elivit, ic			R6658	1-216-073-91	RES-CHIP	10K	5%	1/10W
					R6659	1-216-073-91	RES-CHIP	10K	5%	1/10W
		<transistor></transistor>			R6660	1-249-389-11	CARBON	4.7	5%	1/4W
		\TKANSISTOK>			R6661	1-249-369-11	METAL	1K	1%	1/4W
06601	0.720.110.70	2002705 HEE								
Q6601	8-729-119-78	2SC2785-HFE			R6662	1-216-381-11	METAL OXIDE	0.22	5%	3W
Q6604	8-729-119-76	2SA1175-HFE			DCCC2	1 217 201 11	METAL OVIDE	0.22	E CI	2337
Q6605	8-729-230-49	2SC2712-YG			R6663	1-216-381-11	METAL OXIDE	0.22	5%	3W
Q6606	8-729-140-93	2SB733-34			R6665	1-219-776-11	CARBON	2.2M	10%	1/2W
Q6608	8-729-200-21	2SC2500-B			R6666	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
0	0.700.000	D			R6667	1-249-413-11	CARBON	470	5%	1/4W
Q6609	8-729-029-56	DTA144ESA			R6668	1-216-017-91	RES-CHIP	47	5%	1/10W
Q6610	8-729-119-78	2SC2785-HFE								
Q6611	8-729-029-66	DTC114ESA			R6669	1-249-417-11	CARBON	1K	5%	1/4W
Q6612	8-729-029-66	DTC114ESA			R6672	1-249-421-11	CARBON	2.2K	5%	1/4W
Q6613	8-729-030-02	DTC144ESA			R6674	1-249-418-11	CARBON	1.2K	5%	1/4W
					R6679	1-249-437-11	CARBON	47K	5%	1/4W
Q6800	8-729-422-33	2SD601A-Q-TX			R6680	1-216-362-11	METAL OXIDE	0.27	5%	2W
Q6801	8-729-039-68	IRF620								
Q6802	8-729-025-19	IRFI740G			R6681	1-249-429-11	CARBON	10K	5%	1/4W
Q6803	8-729-119-76	2SA1175-HFE			R6682	1-249-416-11	CARBON	820	5%	1/4W
Q6804	8-729-119-78	2SC2785-HFE			R6683	1-260-127-11	CARBON	220K	5%	1/2W
~0001					R6685	1-249-421-11	CARBON	2.2K	5%	1/4W
Q6805	8-729-140-96	2SD774-34								
Q6805 Q6806	8-729-140-96	2SD774-34 2SD774-34			K0080 Z	1-240-917-91	METAL	8.2M	5%	1W
Q6807	8-729-046-18	2SC5480-01			D((00	1 240 417 11	CARRON	117	E Of	1 //337
Q6807 Q6808		2SC5480-01 2SC5480-01			R6688	1-249-417-11	CARBON	1K	5%	1/4W
	8-729-046-18		V2251 01 1	210	R6689	1-249-389-11	CARBON	4.7	5%	1/4W
Q6809	8-729-038-83	TRANSISTOR 2S	M2231-U1-I	119	R6690	1-249-429-11	CARBON	10K	5%	1/4W
					R6691	1-260-131-11	CARBON	470K	5%	1/2W
					R6692	1-249-410-11	CARBON	270	5%	1/4W



REF NO.	PART NO.	DESCRIPTION		REMAR	<u>RK</u>	REF NO.	PART NO.	DESCRIPTION		REMAI	RK_
R6693	1-215-451-00	METAL	18K	1%	1/4W	R6855	1-214-898-81	METAL	24K	1%	1/2W
R6694	1-215-451-00	METAL	120K	1%	1/4W	R6856	1-215-923-00	METAL OXIDE	10K	5%	3W
R6696	1-215-471-00	METAL OXIDE	22K	5%	3W			METAL OXIDE		5%	3W
						R6857	1-215-923-00	METAL OXIDE	10K	3%	3 W
R6697	1-249-429-11	CARBON	10K	5%	1/4W						
R6698	1-249-417-11	CARBON	1K	5%	1/4W	R6858	1-214-898-81	METAL	24K	1%	1/2W
						R6859	1-215-871-11	METAL OXIDE	2.2K	5%	1W
R6704	1-249-377-11	CARBON	0.47	5%	1/4W	R6860	1-215-923-00	METAL OXIDE	10K	5%	3W
R6707	1-249-421-11	CARBON	2.2K	5%	1/4W	R6861	1-216-295-91	SHORT	0		
R6710	1-217-158-00	METAL	0.47	10%	5W	R6862	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6713	1-249-423-11	CARBON	3.3K	5%	1/4W						,
R6714	1-249-423-11	CARBON	3.3K	5%	1/4W	R6863	1-215-894-11	METAL OXIDE	2.2K	5%	2W
10714	1 247 423 11	CHROOM	J.JIX	370	1/	R6864	1-216-081-00	RES-CHIP	22K	5%	1/10W
D(715	1 217 072 01	DEC CHID	1017	E 01	1/1037						,
R6715	1-216-073-91	RES-CHIP	10K	5%	1/10W	R6865	1-216-101-00	RES-CHIP	150K	5%	1/10W
R6716	1-247-903-00	CARBON	1M	5%	1/4W	R6866	1-215-431-00	METAL	2.7K	1%	1/4W
R6800	1-249-429-11	CARBON	10 <b>K</b>	5%	1/4W	R6867	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6801	1-249-429-11	CARBON	10K	5%	1/4W						
R6802	1-249-429-11	CARBON	10K	5%	1/4W	R6868	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						R6869	1-216-113-00	RES-CHIP	470K	5%	1/10W
R6803	1-216-073-91	RES-CHIP	10K	5%	1/10W	R6870	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6804	1-208-795-11	METAL CHIP	3.6K	0.5%	1/10W	R6871	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6805	1-215-441-00	METAL	6.8K	1%	1/4W	R6872	1-260-125-11	CARBON	150K	5%	1/2W
						K06/2	1-200-123-11	CARBON	130K	370	1/2 VV
R6806	1-215-434-00	METAL	3.6K	1%	1/4W						
R6807	1-249-383-11	CARBON	1.5	5%	1/4W	R6873	1-260-125-11	CARBON	150K	5%	1/2W
						R6875	1-249-417-11	CARBON	1K	5%	1/4W
R6810	1-214-798-21	METAL	1.8	1%	1/2W	R6876	1-260-288-11	CARBON	0.47	5%	1/2W
R6811	1-215-913-11	METAL OXIDE	220	5%	3W	R6877	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R6812	1-247-843-11	CARBON	3.3K	5%	1/4W	R6878	1-208-770-11	METAL CHIP	330	0.5%	1/10W
R6813	1-214-798-21	METAL	1.8	1%	1/2W						,
R6814	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R6879	1-216-105-91	RES-CHIP	220K	5%	1/10W
10014	1-210-037-00	KL5-CIII	2.21	370	1/10**	R6880	1-215-441-00	METAL	6.8K	1%	1/4W
D (015	1 200 001 11	METAL CHID	( 017	0.50	1 /1 0337						
R6815	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W	R6881	1-215-447-00	METAL	12K	1%	1/4W
R6816	1-214-915-00	METAL	120K	1%	1/2W	R6882	1-215-453-00	METAL	22K	1%	1/4W
R6818	1-215-485-00	METAL	470K	1%	1/4W	R6883	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6819	1-249-421-11	CARBON	2.2K	5%	1/4W						
R6820	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6884	1-249-441-11	CARBON	100K	5%	1/4W
						R6885	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6822	1-216-461-00	METAL OXIDE	5.6K	5%	2W	R6886	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6823	1-215-895-11	METAL OXIDE	3.3K	5%	2W	R6887	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6824	1-247-807-31	CARBON	100	5%	1/4W	R6888	1-216-089-91	RES-CHIP	47K	5%	1/10W
						KU000	1-210-069-91	кез-спіг	4/K	370	1/10 VV
R6825	1-247-807-31	CARBON	100	5%	1/4W	D (000		G. P.P.O.	4.5077	<b>F</b> 01	4 (0177
R6826	1-215-894-11	METAL OXIDE	2.2K	5%	2W	R6889	1-260-125-11	CARBON	150K	5%	1/2W
						R6890	1-260-125-11	CARBON	150K	5%	1/2W
R6827	1-216-459-00	METAL OXIDE	2.7K	5%	2W	R6891	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6828	1-249-411-11	CARBON	330	5%	1/4W	R6892	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6829	1-249-411-11	CARBON	330	5%	1/4W	R6893	1-216-085-91	RES-CHIP	33K	5%	1/10W
R6830	1-247-764-11	CARBON	10K	5%	1/2W						
R6831	1-247-764-11	CARBON	10K	5%	1/2W	R6894	1-260-133-11	CARBON	680K	5%	1/2W
					-,	R6895	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6832	1-215-477-00	METAL	220K	1%	1/4W	R6896	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6833	1-215-493-00	METAL	1M	1%	1/4W	R6897	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6834	1-216-381-11	METAL OXIDE	0.22	5%	3W	R6899	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6835	1-216-381-11	METAL OXIDE	0.22	5%	3W						
R6836	1-215-905-11	METAL OXIDE	10	5%	3W	R6900	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
						R6901	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6837	1-215-905-11	METAL OXIDE	10	5%	3W	R6902	1-249-441-11	CARBON	100K	5%	1/4W
R6838	1-215-461-00	METAL	47K	1%	1/4W	R6903	1-215-923-00	METAL OXIDE	10K	5%	3W
R6839	1-249-405-11	CARBON	100	5%	1/4W	R6905	1-249-389-11	CARBON	4.7	5%	1/4W
R6840	8-719-110-39	RD15ES-B1			-,	1 -10, 00					-,
R6840	8-719-923-86	MTZJ-T-77-15				R6906	1-216-079-00	RES-CHIP	18K	5%	1/10W
K0040	6-719-923-60	W11ZJ-1-//-1J									
D (0.41	1 016 104 11	METAL OVER	1.017	5.01	1337	R6907	1-216-079-00	RES-CHIP	18K	5%	1/10W
R6841	1-216-434-11	METAL OXIDE	1.8K	5%	1W	R6908	1-202-719-00	SOLID	1M	20%	1/2W
R6842	1-215-923-00	METAL OXIDE	10 <b>K</b>	5%	3W						
R6843	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R6844	1-247-807-31	CARBON	100	5%	1/4W			<relay></relay>			
R6845	1-208-826-11	METAL CHIP	68K	0.5%	1/10W						
						RY6601	1-515-840-11	RELAY			
R6846	1-260-127-11	CARBON	220K	5%	1/2W	RY6603	1-755-357-11	RELAY, AC POWI	∃R		
R6847	1-216-057-00	RES-CHIP	2.2K	5%	1/2 W	1110005	1 ,00 00 11				
R6848		RES-CHIP									
	1-216-101-00		150K	5%	1/10W			ZED A MODORA CET	).		
R6851	1-260-288-11	CARBON	0.47	5%	1/2W			<transformer< td=""><td><b>(&gt;</b></td><td></td><td></td></transformer<>	<b>(&gt;</b>		
R6852	1-216-345-11	METAL OXIDE	0.47	5%	1W						
						T6601 △	1-431-732-11	TRANSFORMER,	CONVER	TER (SRT	')
R6853	1-260-288-11	CARBON	0.47	5%	1/2W	T6602 A	1-435-081-11	TRANSFORMER,	CONVER	TER (PIT	)
R6854	1-215-923-00	METAL OXIDE	10K	5%	3W	10002 /	1 .00 001 11	THE HOLD CHAINER,	JULIVER	(111)	



REF NO.	PART NO.	DESCRIPTION		REMAR	<u>K</u>	REF NO.	PART NO.	DESCRIPTION		REMA	RK_
T6800	1-429-741-11	TRANSFORMER.	DRIVE			C6204	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
T6801	1-433-934-11	TRANSFORMER,		DFT)		C6205	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	
T6802	1-433-489-11	TRANSFORMER,				C6206	1-126-964-11	ELECT	10UF	20.00%	
10002	1 100 107 11	114 11 (01 014 (1214)	· Druurb (	1121)		00200	1 120 70. 11	22201	1001	20.0070	20.
T6803 /	1-453-332-21	TRANSFORMER A	ASSY FLY	BACK		C6207	1-126-947-11	ELECT	47UF	20.00%	16V
10000	1 100 002 21	(NX-4601//J1B4) (				C6208	1-126-947-11	ELECT	47UF	20.00%	25V
T6803 A	1-453-360-11	TRANSFORMER A				C6209	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
10000	1 100 000 11	(NX-4601//J1J4)(EX			1)	C6210	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
T6804	1-433-489-11	TRANSFORMER,			,	C6211	1-126-964-11	ELECT	10UF	20.00%	50V
						C6212	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	
		<thermistor></thermistor>				C6219 C6220	1-163-017-00 1-163-017-00	CERAMIC CHIP CERAMIC CHIP	0.0047UF 0.0047UF		
						C6220 C6350	1-163-017-00	CERAMIC CHIP	0.00470F 0.1UF	10.00%	
TH6601	1-803-540-11	THERMISTOR				C6351	1-126-947-11	ELECT	47UF	20.00%	
TH6603	1-803-586-11	THERMISTOR, NT	iC			00001	1 120 ) ., 11	22201	., 01	20.0070	10.
						C6353	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
		<varistor></varistor>				C6355	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
		V/Hd51010				C6356	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
VD6601	1-803-614-11	VARISTOR				C6358	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
VD6603	1-803-830-11	VARISTOR (ERZV	(14D621)			C6361	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
		,	,								
						C6362	1-164-182-11	CERAMIC CHIP	0.0033UF		
						C6365 C6376	1-163-809-11 1-126-947-11	CERAMIC CHIP ELECT	0.047UF 47UF	10.00% 20.00%	
******	*****	*****	*****	*****	*****	C6377	1-126-947-11	ELECT	47UF 47UF	20.00%	
		D. D. D. D. MOV.				C6377	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	
	* A-1333-171-A	D1 BOARD MOUN				00370	1 101 001 11	CLIC IIIIC CIII	0.101	10.0070	25 (
		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				C6380	1-136-495-11	FILM	0.068UF	5.00%	50V
	4-382-854-11	SCREW (M3X10),	P SW (_)			C6381	1-126-964-11	ELECT	10UF	20.00%	50V
	<del>4</del> -302-03 <del>4</del> -11	SCREW (MSATO),	1,511 (1)			C6385	1-126-947-11	ELECT	47UF	20.00%	16V
						C6386	1-126-947-11	ELECT	47UF	20.00%	
						C6388	1-126-964-11	ELECT	10UF	20.00%	50V
		<capacitor></capacitor>				G(202	1 126 047 11	DI DOT	457.75	20 000	1617
						C6392 C6409	1-126-947-11 1-126-963-11	ELECT ELECT	47UF 4.7UF	20.00% 20.00%	16V 50V
C6101	1-107-714-11	ELECT	10UF	20.00%		C0409	1-120-905-11	ELECT	4./UF	20.00%	30 V
C6102	1-109-953-11	ELECT	2.2UF	20.00%							
C6103	1-107-714-11	ELECT	10UF	20.00%				<connector></connector>			
C6104 C6105	1-126-947-11 1-126-933-11	ELECT ELECT	47UF 100UF	20.00% 20.00%							
C0103	1-120-955-11	ELECT	10001	20.00 /0	10 V	CN6100	1-793-498-11	CONNECTOR, BC	OARD TO B	OARD 50	)P
C6108	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	CN6101 *	1-564-525-11	PLUG, CONNECT	OR 10P		
C6109	1-126-947-11	ELECT	47UF	20.00%			1-564-518-11	PLUG, CONNECT			
C6111	1-126-933-11	ELECT	100UF	20.00%	16V	CN6104 *	1-564-523-11	PLUG, CONNECT	OR 8P		
C6112	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V						
C6113	1-137-493-11	FILM	0.0047UF	5.00%	630V			∠DIODE>			
								<diode></diode>			
C6114	1-107-909-11	ELECT	47UF	20.00%		D6101	8-719-510-02	D1NS4			
C6115	1-163-005-91	CERAMIC CHIP	470PF	10.00%		D6102	8-719-510-02	DINS4			
C6116 C6117	1-163-275-11 1-163-275-11	CERAMIC CHIP CERAMIC CHIP	0.001UF 0.001UF	5.00% 5.00%	50V 50V	D6103	8-719-063-73	DIODE D1NL20U-	-TR		
C6117	1-103-273-11	ELECT	47UF	20.00%		D6104	8-719-911-19	1SS119-25			
20110	1 10/ 707-11		1,01	20.00 /0	101	D6105	8-719-109-60	RD2.7ESB2			
C6121	1-126-963-11	ELECT	4.7UF	20.00%	50V						
C6122	1-126-947-11	ELECT	47UF	20.00%	16V	D6106	8-719-510-02	D1NS4			
C6123	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	D6107	8-719-911-19	1SS119-25			
C6124	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	D6108	8-719-911-19	1SS119-25			
C6125	1-128-551-11	ELECT	22UF	20.00%	25V	D6110	8-719-987-87	ERA85-009			
						D6112	8-719-911-19	1SS119-25			
C6127	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		D6133	8-719-911-19	1SS119-25			
C6128	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%		D6133	8-719-911-19	1SS119-25			
C6129 C6131	1-126-964-11 1-126-964-11	ELECT ELECT	10UF 10UF	20.00% 20.00%		D6135	8-719-911-19	1SS119-25			
C6131	1-120-904-11	FILM	0.47UF	5.00%	50V 50V	D6201	8-719-109-88	RD5.6ES-B1			
C0133	1 13/-174-01	1 11/1/1	0.7/01	5.00 /0	JU ¥	D6210	8-719-109-88	RD5.6ES-B1			
C6136	1-129-716-00	FILM	0.015UF	5.00%	630V						
C6138	1-126-968-11	ELECT	100UF	20.00%		D6350	8-719-914-43	DAN202K			
C6139	1-107-902-11	ELECT	1UF	20.00%		D6351	8-719-914-43	DAN202K			
C6140	1-126-960-11	ELECT	1UF	20.00%		D6355	8-719-914-43	DAN202K			
C6201	1-126-947-11	ELECT	47UF	20.00%	25V	D6404	8-719-914-43	DAN202K			
0(20-	1 104 01= ::	Et EOM	451.75	20.00=	101						
C6202 C6203	1-126-947-11	ELECT	47UF	20.00% 20.00%							
C0203	1-126-947-11	ELECT	47UF	20.00%	10 4	,					



REF NO.	PART NO.	DESCRIPTION		REMARK	REF NO.	PART NO.	DESCRIPTION		REMAI	RK
1121 1101	1111111101				TEL TO				1021/11/12	
		<ic></ic>					<resistor></resistor>			
IC6101	8-752-053-21	CXA1211M			R6101	1-216-025-11	RES-CHIP	100	5%	1/10W
IC6102	8-759-450-95	LM393N			R6103	1-216-025-11	RES-CHIP	100	5%	1/10W
IC6103	8-759-450-95	LM393N			R6105	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
IC6104	8-759-803-42	LA6500-FA			R6106	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
IC6105	8-759-450-95	LM393N			R6107	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
IC6106	8-759-682-42	MM1431ATT			R6108	1-216-073-91	RES-CHIP	10K	5%	1/10W
IC6108	8-759-567-08	MB88141APF-ER			R6109	1-216-073-91	RES-CHIP	10K	5%	1/10W
IC6201	8-759-183-37	CA0007AD			R6110	1-216-295-91	SHORT	0		
IC6202	8-759-135-80	UPC358C			R6113	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
IC6351	8-759-450-95	LM393N			R6114	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
10(252	0.750.001.50	TIA 70050			D(115	1 200 014 01	METAL CHID	2277	0.50	1 /1 011
IC6353	8-759-231-53	TA7805S			R6115	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
IC6354	8-759-325-48	CA0005AD			R6116	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
IC6356	8-759-822-38	LA6510			R6117 R6118	1-208-782-11 1-208-810-11	METAL CHIP METAL CHIP	1K 15K	0.5% 0.5%	1/10W 1/10W
					R6119		METAL CHIP	3.9K		1/10W
		<chip conduct<="" td=""><td>OD.</td><td></td><td>K0119</td><td>1-208-796-11</td><td>METAL CHIP</td><td>3.9K</td><td>0.5%</td><td>1/10 W</td></chip>	OD.		K0119	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10 W
		CHIF CONDUCT	OK>		R6120	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
JR6101	1-216-296-11	SHORT	0		R6121	1-216-490-11	METAL OXIDE	39K	5%	3W
JR6102	1-216-296-11	SHORT	0		R6122	1-216-295-91	SHORT	0	370	3 **
JR6103	1-216-296-11	SHORT	0		R6123	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
JR6104	1-216-295-91	SHORT	0		R6124	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
JR6104 JR6108	1-216-296-11	SHORT	0		K0124	1-200-000-11	WILLIAL CITI	J.0IX	0.5 /0	1/10**
310100	1 210 270 11	SHORI	U		R6126	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
JR6109	1-216-296-11	SHORT	0		R6127	1-208-832-11	METAL CHIP	120K	0.5%	1/10W
JR6110	1-216-296-11	SHORT	0		R6128	1-208-838-91	METAL CHIP	220K	0.5%	1/10W
JR6111	1-216-296-11	SHORT	0		R6129	1-216-353-00	METAL OXIDE	2.2	5%	1W
JR6112	1-216-296-11	SHORT	0		R6130	1-216-073-91	RES-CHIP	10K	5%	1/10W
JR6113	1-216-296-11	SHORT	0						- /-	-,
					R6131	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
JR6114	1-216-296-11	SHORT	0		R6133	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
JR6115	1-216-296-11	SHORT	0		R6134	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
JR6116	1-216-295-91	SHORT	0		R6135	1-216-073-91	RES-CHIP	10K	5%	1/10W
JR6117	1-216-295-91	SHORT	0		R6136	1-260-328-11	CARBON	1K	5%	1/2W
					R6137	1-216-049-11	RES-CHIP	1K	5%	1/10W
		<coil></coil>			R6138	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
					R6139	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
L6101	1-416-920-11	INDUCTOR	10MH		R6140	1-216-077-91	RES-CHIP	15K	5%	1/10W
L6102	1-406-989-21	INDUCTOR	10MH		R6141	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
					R6142	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
		<ic link=""></ic>			R6143	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
					R6146	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
PS6101	1-533-589-31	LINK, IC			R6149	1-208-828-11	METAL CHIP	82K	0.5%	1/10W
					R6150	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
		TTD A MOLOTTO D			D (4.54		DEG GIVE	4.77	# C/	4 (4 0 7 7 7
		<transistor></transistor>			R6151	1-216-049-11	RES-CHIP	1K	5%	1/10W
06102	9 720 046 22	IDE700 LE40			R6152	1-216-081-00	RES-CHIP	22K	5%	1/10W
Q6103 Q6104	8-729-046-33	IRF720-LF49			R6153	1-216-105-91	RES-CHIP	220K	5%	1/10W
Q6104 Q6105	8-729-230-49 8-729-230-49	2SC2712-YG 2SC2712-YG			R6154 R6155	1-208-808-11 1-208-822-11	METAL CHIP METAL CHIP	12K 47K	0.5% 0.5%	1/10W 1/10W
Q6105 Q6106	8-729-026-49	2SA1037AK-T146-	D		K0133	1-200-022-11	METAL CHIF	4/K	0.5%	1/10 W
Q6100 Q6107	8-729-020-49	2SB733-34	IX.		R6156	1-216-077-91	RES-CHIP	15K	5%	1/10W
Q0107	0-727-140-73	23D733-34			R6157	1-216-089-91	RES-CHIP	47K	5%	1/10W
Q6109	8-729-026-49	2SA1037AK-T146-	R		R6158	1-216-689-11	RES-CHIP	39K	5%	1/10W
Q6110	1-801-806-11	TR DTC144EKA	IX.		R6159	1-208-797-11	METAL CHIP	4.3K	0.5%	1/10W
Q6118	8-729-230-49	2SC2712-YG			R6160	1-216-073-91	RES-CHIP	10K	5%	1/10W
Q6124	1-801-806-11	TR DTC144EKA			Koroo	1 210 073 71	KES CIII	TOIL	370	1/10**
Q6125	8-729-230-49	2SC2712-YG			R6161	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
Z0120	5 , 2 / 230 T/	2002/12 10			R6162	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q6126	8-729-026-49	2SA1037AK-T146-	R		R6168	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q6128	8-729-023-22	2SD2114K			R6169	1-208-776-11	METAL CHIP	560	0.5%	1/10W
Q6201	8-729-230-49	2SC2712-YG			R6170	1-216-037-00	RES-CHIP	330	5%	1/10W
Q6202	8-729-230-49	2SC2712-YG					-	-		
Q6203	8-729-422-33	2SD601A-Q-TX			R6171	1-216-113-00	RES-CHIP	470K	5%	1/10W
					R6172	1-216-105-91	RES-CHIP	220K	5%	1/10W
Q6350	8-729-230-49	2SC2712-YG			R6173	1-216-093-91	RES-CHIP	68K	5%	1/10W
Q6356	8-729-230-49	2SC2712-YG			R6174	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
Q6405	8-729-026-49	2SA1037AK-T146-	R		R6175	1-208-816-11	METAL CHIP	27K	0.5%	1/10W
Q6455	8-729-230-49	2SC2712-YG								



REF NO.	PART NO.	DESCRIPTION		REMAR	RK	REF NO.	PART NO.	DESCRIPTION		REMAR	RK
TEL TO.	1711(1710)	DESCRIPTION		TCDIVII II	<u> </u>	TEL TO:	17111710.	DESCRIPTION		TCDIVITI	-
R6176	1-249-389-11	CARBON	4.7	5%	1/4W	R6442	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6177	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R6456	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6178	1-249-389-11	CARBON	4.7	5%	1/4W	R6457	1-208-818-11	METAL CHIP	33K	0.5%	1/10W
R6180	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R6190	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R6458	1-216-089-91	RES-CHIP	47K	5%	1/10W
						R6459	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6192	1-216-295-91	SHORT	0								
R6195	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W						
								AMDIADI E DEC	ICTOD.		
R6196	1-249-377-11	CARBON	0.47	5%	1/4W			<variable res<="" td=""><td>1510K&gt;</td><td></td><td></td></variable>	1510K>		
R6197	1-216-099-00	RES-CHIP	120K	5%	1/10W						
R6198	1-216-093-91	RES-CHIP	68K	5%	1/10W	RV6100	1-241-785-11	RES, ADJ, CERMI	ET 10K		
R6200	1-208-826-11	METAL CHIP	68K	0.5%	1/10W						
R6201	1-247-750-11	CARBON	680	5%	1/2W						
R6202	1-216-061-91	RES-CHIP	3.3K	5%		ale ale ale ale ale ale ale ale ale ale	de sile sile sile sile sile sile sile sil	******	le sile sile sile sile sile sile sile si	ale ale ale ale ale ale ale ale ale	****
					1/10W						
R6203	1-215-906-11	METAL OXIDE	15	5%	3W						
R6204	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	*	* A-1333-176-A	DH BOARD MOU	INTED (KV	-ES38M3	1)
						*	* A-1333-175-A	DH BOARD MOU	NTED (KV	-ES38M6	1)
R6206	1-216-033-00	RES-CHIP	220	5%	1/10W	*	A-1333-172-A	DH BOARD MOU	INTED		
R6207	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W			(KV-ES38M90/ES			
	1-208-806-11							**********	,		
R6208		METAL CHIP	10K	0.5%	1/10W						
R6209	1-216-107-00	RES-CHIP	270K	5%	1/10W						
R6210	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		4-382-854-11	SCREW (M3X10).	P, SW (+)		
R6211	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R6212	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
								C + D + CITTOD			
R6213	1-216-105-91	RES-CHIP	220K	5%	1/10W			<capacitor></capacitor>			
R6215	1-208-836-11	METAL CHIP	180K	0.5%	1/10W						
R6216	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	C3801	1-126-964-11	ELECT	10UF	20.00%	50V
						C3804	1-102-129-00	CERAMIC	0.01UF	10.00%	50V
R6217	1-216-073-91	RES-CHIP	10K	5%	1/10W	C3805	1-126-964-11	ELECT	10UF	20.00%	
R6218	1-208-836-11	METAL CHIP	180K	0.5%	1/10W	C3807	1-102-129-00	CERAMIC	0.01UF	10.00%	50V
R6219	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	C3816	1-126-964-11	ELECT	10UF	20.00%	50V
R6220	1-208-806-11	METAL CHIP	10K	0.5%	1/10W						
R6221	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	C3819	1-126-960-11	ELECT	1UF	20.00%	50V
						C3822	1-136-165-00	FILM	0.1UF	5.00%	50V
R6222	1-216-295-91	SHORT	0								
R6223	1-216-295-91	SHORT	0								
				0.501	1 /1 0117			CONNECTOR			
R6224	1-208-824-11	METAL CHIP	56K	0.5%	1/10W			<connector></connector>			
R6225	1-208-824-11	METAL CHIP	56K	0.5%	1/10W						
R6226	1-208-808-11	METAL CHIP	12K	0.5%	1/10W	CN3802 *	1-564-509-11	PLUG, CONNECT	OR 6P		
R6227	1-208-808-11	METAL CHIP	12K	0.5%	1/10W						
R6324	1-216-017-91	RES-CHIP	47	5%	1/10W			<diode></diode>			
					,			<diode></diode>			
R6325	1-216-017-91	RES-CHIP	47	5%	1/10W						
R6326	1-208-808-11	METAL CHIP	12K	0.5%	1/10W	D3805	8-719-911-19	1SS119-25			
R6327	1-216-067-00	RES-CHIP	5.6K	5%	1/10W						
R6350	1-216-067-00	RES-CHIP	5.6K	5%	1/10W			<ic></ic>			
R6357	1-216-057-00	RES-CHIP	2.2K	5%	1/10W			des			
						102005	0.750.022.20	T A (510			
R6359	1-216-097-11	RES-CHIP	100K	5%	1/10W	IC3805	8-759-822-38	LA6510			
R6360	1-216-073-91	RES-CHIP	10K	5%	1/10W	IC3807	1-418-597-11	SENSOR UNIT, M	IAGNETIC		
R6361	1-216-097-11	RES-CHIP	100K	5%	1/10W						
R6367	1-208-808-11	METAL CHIP	12K	0.5%	1/10W			<transistor></transistor>			
R6368	1-208-810-11	METAL CHIP	15K	0.5%	1/10W			111111110101010			
						02000	0 720 110 70	2002205 TIEE			
R6375	1-216-041-00	RES-CHIP	470	5%	1/10W	Q3806	8-729-119-78	2SC2785-HFE			
R6378	1-215-473-00	METAL	150K	1%	1/4W	Q3807	8-729-030-02	DTC144ESA			
R6379	1-216-295-91	SHORT	0			Q3808	8-729-030-02	DTC144ESA			
						Q3809	8-729-119-78	2SC2785-HFE			
R6382	1-208-830-11	METAL CHIP	100K	0.5%	1/10W	Q3812	8-729-119-78	2SC2785-HFE			
R6385	1-216-295-91	SHORT	0	0.570	-, 11	25512	2 ,2 ,11 , 10				
				0.501	1/1007						
R6386	1-208-830-11	METAL CHIP	100K	0.5%	1/10W			DEGREES-			
R6391	1-216-049-11	RES-CHIP	1K	5%	1/10W			<resistor></resistor>			
R6394	1-216-069-00	RES-CHIP	6.8K	5%	1/10W						
						R3802	1-249-417-11	CARBON	1K	5%	1/4W
R6413	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R3803	1-249-417-11	CARBON	1K	5%	1/4W
R6416	1-208-808-11	METAL CHIP	10K 12K			R3804		METAL			
				0.5%	1/10W		1-215-428-00		2K	1%	1/4W
R6418	1-216-113-00	RES-CHIP	470K	5%	1/10W	R3805	1-215-428-00	METAL	2K	1%	1/4W
R6419	1-216-097-11	RES-CHIP	100K	5%	1/10W			(KV-ES38M31)			
R6420	1-216-111-00	RES-CHIP	390K	5%	1/10W	R3805	1-215-425-00	METAL	1.5K	1%	1/4W
								(KV-ES38M61)			
R6433	1-216-097-11	RES-CHIP	100K	5%	1/10W			,			
						1					
R6438	1-215-437-00	METAL	4.7K	1%	1/4W						

C4338

C4339

1-164-004-11

1-163-235-11 CERAMIC CHIP

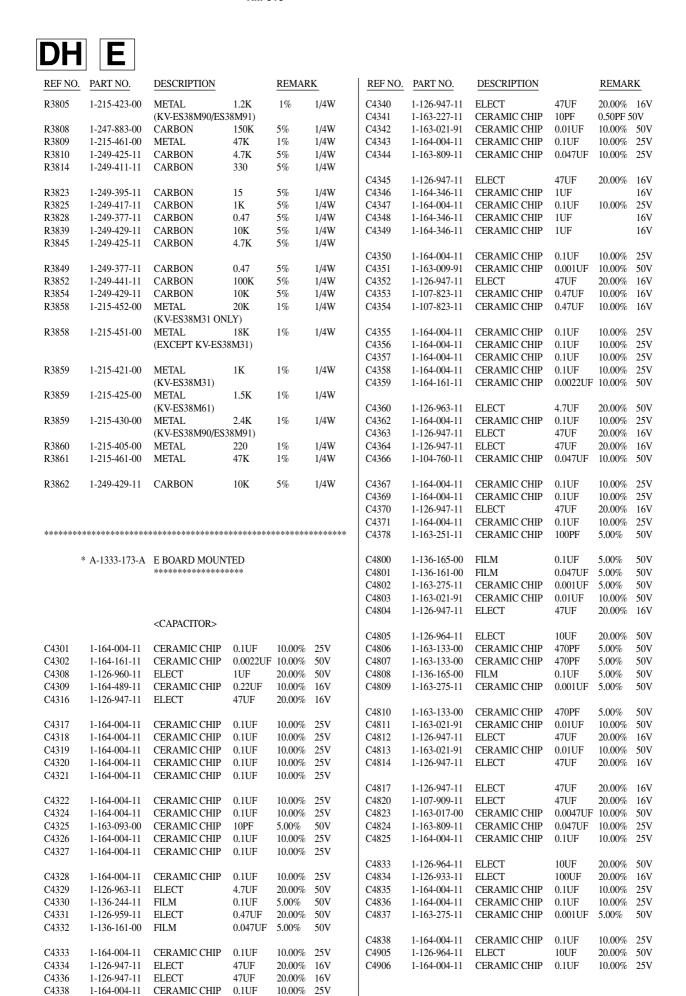
0.1UF

22PF

10.00% 25V

50V

5.00%





REF NO.	PART NO.	DESCRIPTION		REMAI	RK	REF NO.	PART NO.	DESCRIPTION		REMA	RK
		<connector></connector>						<transistor></transistor>			
CN4101	1-793-497-11	CONNECTOR, BO		BOARD 4	0P	Q4301	8-729-230-49	2SC2712-YG			
CN4500 *	* 1-564-512-11	PLUG, CONNECT	TOR 9P			Q4302	8-729-424-02	2SB709A-QRS-TX			
CN4502 3	* 1-564-506-11	PLUG, CONNECT	TOR 3P			Q4303	8-729-120-28	2SC1623-L5L6			
						Q4304	8-729-230-49	2SC2712-YG			
						Q4305	8-729-230-49	2SC2712-YG			
		<diode></diode>									
						Q4307	8-729-424-02	2SB709A-QRS-TX			
D4302	8-719-110-41	RD15ES-B2				Q4308	8-729-424-02	2SB709A-QRS-TX	Ĺ		
D4303	8-719-109-72	RD3.9ES-B2				Q4310	8-729-424-02	2SB709A-QRS-TX			
D4304	8-719-977-22	DTZ9.1				Q4315	1-801-806-11	TR DTC144EKA			
D4305	8-719-977-22	DTZ9.1				Q4316	8-729-230-49	2SC2712-YG			
D4311	8-719-914-43	DAN202K									
						Q4317	8-729-900-53	DTC114EK			
D4312	8-719-914-43	DAN202K				Q4319	8-729-424-02	2SB709A-QRS-TX			
D4313	8-719-401-63	MA3062M-TX				Q4320	8-729-424-02	2SB709A-QRS-TX			
D4314	8-719-914-43	DAN202K				Q4321	8-729-424-02	2SB709A-QRS-TX	[		
D4800	8-719-914-43	DAN202K				Q4322	8-729-424-02	2SB709A-QRS-TX			
D4801	8-719-914-43	DAN202K									
						Q4800	8-729-230-49	2SC2712-YG			
D4802	8-719-109-81	RD4.7ESB2				Q4801	8-729-230-49	2SC2712-YG			
D4805	8-719-914-43	DAN202K				Q4802	8-729-230-49	2SC2712-YG			
D4808	8-719-914-43	DAN202K				Q4803	8-729-230-49	2SC2712-YG			
D4809	8-719-914-43	DAN202K				Q4804	8-729-230-49	2SC2712-YG			
D4811	1-249-381-11	CARBON	1	5%	1/4W	QTOOT	0 727 230 47	2502/12 10			
D 1011	1 2 17 301 11	Criticory	•	570	1/ 1 11	Q4805	8-729-230-49	2SC2712-YG			
D4812	8-719-911-19	1SS119-25				Q4806	8-729-230-49	2SC2712-YG			
D4813	8-719-914-43	DAN202K				Q4807	8-729-230-49	2SC2712-YG			
D4813	8-719-914-43	DAN202K DAN202K				Q4807 Q4808	8-729-424-02	2SB709A-QRS-TX	r		
D4814 D4815		RD2.2ES-B2				-		-			
D4815 D4816	8-719-109-54 8-719-911-19	1SS119-25				Q4809	8-729-424-02	2SB709A-QRS-TX	L		
D4010	0-/19-911-19	133119-23				Q4810	8-729-230-49	2SC2712-YG			
D4816	9 710 001 22	1SS133T-77				Q4811	8-729-230-49	2SC2712-YG			
	8-719-991-33					1 -			,		
D4817	8-719-109-89	RD5.6ESB2				Q4812	8-729-424-02	2SB709A-QRS-TX			
D4818	8-719-914-43	DAN202K				Q4813	8-729-424-02	2SB709A-QRS-TX			
D4900	8-719-911-19	1SS119-25				Q4814	8-729-424-02	2SB709A-QRS-TX	L		
						04915	9 720 424 02	2SB709A-ORS-TX	r		
		EEDDITE DE AD				Q4815	8-729-424-02				
		<ferrite bead<="" td=""><td>&gt;</td><td></td><td></td><td>Q4816</td><td>8-729-424-02</td><td>2SB709A-QRS-TX</td><td>L</td><td></td><td></td></ferrite>	>			Q4816	8-729-424-02	2SB709A-QRS-TX	L		
						Q4817	8-729-230-49	2SC2712-YG	_		
FB4387	1-216-295-91	SHORT	0			Q4818	8-729-424-02	2SB709A-QRS-TX	L		
FB4388	1-216-295-91	SHORT	0			Q4820	8-729-230-49	2SC2712-YG			
FB4389	1-216-295-91	SHORT	0								
						Q4821	1-801-806-11	TR DTC144EKA			
						Q4822	8-729-230-49	2SC2712-YG			
		<ic></ic>				Q4823	8-729-424-02	2SB709A-QRS-TX			
						Q4824	8-729-424-02	2SB709A-QRS-TX	L		
IC4301	8-752-090-87	CXA2100AQ				Q4825	8-729-230-49	2SC2712-YG			
IC4800	8-759-450-95	LM393N									
IC4801	8-759-450-95	LM393N				Q4826	8-729-230-49	2SC2712-YG			
IC4802	8-759-638-79	NJM3404AD-W				Q4906	8-729-422-33	2SD601A-Q-TX	_		
IC4803	8-759-135-80	UPC358C				Q4907	8-729-424-02	2SB709A-QRS-TX			
						Q4908	8-729-424-02	2SB709A-QRS-TX			
						Q4909	8-729-422-33	2SD601A-Q-TX			
		<chip conduct<="" td=""><td>ΓOR&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></chip>	ΓOR>								
						Q4910	8-729-424-02	2SB709A-QRS-TX			
JR4301	1-216-295-91	SHORT	0								
								DEGLGTOD			
		COIL :						<resistor></resistor>			
		<coil></coil>				D 4201	1 01/ 007 11	DEC CHIP	100	E 01	1/10337
T 4001	1 412 020 11	DIDLICEOS	10111			R4301	1-216-025-11	RES-CHIP	100	5%	1/10W
L4301	1-412-029-11	INDUCTOR	10UH			R4302	1-216-025-11	RES-CHIP	100	5%	1/10W
L4302	1-412-029-11	INDUCTOR	10UH			R4303	1-216-025-11	RES-CHIP	100	5%	1/10W
L4303	1-412-029-11	INDUCTOR	10UH			R4304	1-216-025-11	RES-CHIP	100	5%	1/10W
L4304	1-412-029-11	INDUCTOR	10UH			R4305	1-216-025-11	RES-CHIP	100	5%	1/10W
L4305	1-412-029-11	INDUCTOR	10UH					DDG	400	# O*	4.44.000
		n.m	40			R4306	1-216-025-11	RES-CHIP	100	5%	1/10W
L4306	1-412-029-11	INDUCTOR	10UH			R4307	1-216-025-11	RES-CHIP	100	5%	1/10W
L4308	1-412-031-11	INDUCTOR	47UH			R4308	1-216-295-91	SHORT	0		
L4309	1-412-031-11	INDUCTOR	47UH			R4310	1-216-295-91	SHORT	0		
L4311	1-412-002-31	INDUCTOR	4.7UH			R4312	1-216-295-91	SHORT	0		

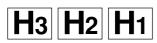


REF NO.	PART NO.	DESCRIPTION		REMAI	RK	REF NO.	PART NO.	DESCRIPTION		REMAI	RK
R4313	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R4383	1-216-079-00	RES-CHIP	18K	5%	1/10W
R4313 R4314	1-216-057-00	RES-CHIP	2.2K	5% 5%	1/10W 1/10W	R4384	1-216-079-00	RES-CHIP	100	5%	1/10W
R4314 R4316		RES-CHIP	6.8K	5%	1/10W	R4387	1-216-295-91	SHORT		3 /0	1/10 **
	1-216-069-00					K4367	1-210-293-91	SHOKI	0		
R4317	1-216-081-00	RES-CHIP	22K	5%	1/10W	D 4200	1 217 205 01	CHODE	0		
R4318	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W	R4388	1-216-295-91	SHORT	0		
						R4389	1-216-295-91	SHORT	0		
R4319	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W	R4395	1-216-295-91	SHORT	0		
R4320	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W	R4396	1-216-295-91	SHORT	0		
R4321	1-216-298-00	RES-CHIP	2.2	5%	1/10W	R4397	1-216-295-91	SHORT	0		
R4322	1-216-097-11	RES-CHIP	100K	5%	1/10W						
R4323	1-208-814-91	METAL CHIP	22K	0.5%	1/10W	R4399	1-216-025-11	RES-CHIP	100	5%	1/10W
						R4401	1-216-105-91	RES-CHIP	220K	5%	1/10W
R4324	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R4408	1-216-025-11	RES-CHIP	100	5%	1/10W
R4325	1-208-818-11	METAL CHIP	33K	0.5%	1/10W	R4409	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4326	1-208-826-11	METAL CHIP	68K	0.5%	1/10W	R4410	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4327	1-208-822-11	METAL CHIP	47K	0.5%	1/10W						
R4329	1-208-782-11	METAL CHIP	1K	0.5%	1/10W	R4411	1-216-073-91	RES-CHIP	10K	5%	1/10W
					-,	R4412	1-216-097-11	RES-CHIP	100K	5%	1/10W
R4330	1-216-089-91	RES-CHIP	47K	5%	1/10W	R4518	1-216-025-11	RES-CHIP	100	5%	1/10W
R4331	1-216-025-11	RES-CHIP	100	5%	1/10W	R4519	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4332	1-216-025-11	RES-CHIP	100	5%	1/10W	R4520	1-216-025-11	RES-CHIP	100	5%	1/10W
R4333	1-216-025-11	RES-CHIP	100	5%	1/10W	104320	1-210-025-11	KL5-CIII	100	370	1/10**
						D4521	1 216 025 11	RES-CHIP	100	501	1/10W
R4334	1-216-049-11	RES-CHIP	1K	5%	1/10W	R4521	1-216-025-11		100	5%	
D 4225	1 216 025 11	DEC CHID	100	<b>5</b> 61	1 /1 0117	R4800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4335	1-216-025-11	RES-CHIP	100	5%	1/10W	R4801	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4336	1-216-025-11	RES-CHIP	100	5%	1/10W	R4802	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4337	1-216-025-11	RES-CHIP	100	5%	1/10W	R4803	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4338	1-216-041-00	RES-CHIP	470	5%	1/10W						
R4339	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	R4804	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						R4805	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R4341	1-216-295-91	SHORT	0			R4806	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R4343	1-216-025-11	RES-CHIP	100	5%	1/10W	R4807	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4344	1-216-025-11	RES-CHIP	100	5%	1/10W	R4809	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4345	1-216-075-00	RES-CHIP	12K	5%	1/10W						
R4346	1-208-812-11	METAL CHIP	18K	0.5%	1/10W	R4810	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
						R4811	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4347	1-216-025-11	RES-CHIP	100	5%	1/10W	R4812	1-216-295-91	SHORT	0		
R4348	1-216-025-11	RES-CHIP	100	5%	1/10W	R4813	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4349	1-216-041-00	RES-CHIP	470	5%	1/10W	R4814	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4350	1-216-025-11	RES-CHIP	100	5%	1/10W						-,
R4351	1-216-081-00	RES-CHIP	22K	5%	1/10W	R4815	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
101331	1 210 001 00	RES CITI	2211	570	1/1011	R4816	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4352	1-216-041-00	RES-CHIP	470	5%	1/10W		1-208-852-11	METAL CHIP	820K	0.5%	1/10W
R4353	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	R4818	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4354	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	R4819	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4355	1-216-049-11	RES-CHIP	1K	5%	1/10W	1017	1-210-047-11	KL5-CIII	111	370	1/10**
R4356	1-216-049-11	RES-CHIP	1K	5%	1/10W	R4820	1-216-073-91	RES-CHIP	10K	5%	1/10W
K4330	1-210-049-11	KE3-CIII	11X	3 /0	1/10 W	R4821	1-216-073-91	RES-CHIP	10K	5%	1/10W
D 4257	1 216 072 01	DEC CHID	10V	501	1/10W	R4822	1-216-073-91	RES-CHIP	1K		1/10W
R4357	1-216-073-91	RES-CHIP	10K	5%				RES-CHIP		5%	
R4358	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R4823	1-216-049-11		1K	5%	1/10W
R4359	1-216-041-00	RES-CHIP	470	5%	1/10W	R4824	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4360	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	D 4025	1 21 ( 072 01	DEG GIHD	1017	T.01	1 /1 0117
R4361	1-216-133-91	RES-CHIP	3.3M	5%	1/10W	R4825	1-216-073-91	RES-CHIP	10K	5%	1/10W
D 40/0	1.016.040.46	DEG CITE	177	F.01	1/1033	R4826	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4362	1-216-049-11	RES-CHIP	1K	5%	1/10W	R4827	1-216-295-91	SHORT	0		
R4363	1-216-025-11	RES-CHIP	100	5%	1/10W	R4828	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R4365	1-216-025-11	RES-CHIP	100	5%	1/10W	R4829	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R4366	1-216-025-11	RES-CHIP	100	5%	1/10W						
R4367	1-216-025-11	RES-CHIP	100	5%	1/10W	R4831	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
						R4832	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4368	1-216-049-11	RES-CHIP	1K	5%	1/10W	R4833	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4369	1-216-025-11	RES-CHIP	100	5%	1/10W	R4834	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4370	1-216-049-11	RES-CHIP	1K	5%	1/10W	R4835	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4372	1-216-049-11	RES-CHIP	1K	5%	1/10W	R4836	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4373	1-216-295-91	SHORT	0								
						R4837	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4374	1-216-025-11	RES-CHIP	100	5%	1/10W	R4838	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4375	1-216-049-11	RES-CHIP	1K	5%	1/10W	R4839	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R4376	1-216-025-11	RES-CHIP	100	5%	1/10W	R4840	1-216-295-91	SHORT	0		
R4377	1-216-049-11	RES-CHIP	1K	5%	1/10W	R4841	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4380	1-216-073-91	RES-CHIP	10K	5%	1/10W						
-						R4842	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R4381	1-208-854-11	METAL CHIP	1M	0.5%	1/10W	R4843	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4382	1-216-073-91	RES-CHIP	10K	5%	1/10W			-	•		
		-									



REF NO.	PART NO.	DESCRIPTION		REMA	<u>RK</u>	REF NO.	PART NO.	DESCRIPTION		REMAR	RK_
R4844	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	*	: A 12/1 500 A	F1 BOARD MOUN	ITED		
R4845	1-208-798-11	METAL CHIP	4.7K 100K	0.5%	1/10W 1/10W		A-1241-309-A	************			
R4846	1-216-295-91	SHORT	0	0.570	1/10**						
14040	1 210 2/3 /1	SHORI	O				1-533-223-11	HOLDER, FUSE			
R4856	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	*	4-374-846-01	COVER, CAPACIT	OR, CAP T	YPE	
R4857	1-208-814-91	METAL CHIP	22K	0.5%	1/10W						
R4858	1-208-814-91	METAL CHIP	22K	0.5%	1/10W						
R4859	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W						
R4860	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W			<capacitor></capacitor>			
R4861	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C1(01 A	1 104 700 51	MALAD	0.47115	20.00%	2501
R4862	1-210-037-00	METAL CHIP	2.2K 15K	0.5%	1/10W 1/10W		. 1-104-708-51	MYLAR	0.47UF	20.00%	250V
R4864	1-208-788-11	METAL CHIP	1.8K	0.5%	1/10W		1-109-835-51	MYLAR	0.68UF	20.00%	250V
R4865	1-208-770-11	METAL CHIP	330	0.5%	1/10W	C1603 △	. 1-117-703-51	CERAMIC	0.0047UF	99%	250V
R4866	1-216-081-00	RES-CHIP	22K	5%	1/10W						
								<connector></connector>			
R4869	1-208-814-91	METAL CHIP	22K	0.5%	1/10W			CONTRETOR			
R4871	1-208-828-11	METAL CHIP	82K	0.5%	1/10W	CN1601 ♠	1-580-843-11	PIN, CONNECTOR	D (DOWED)		
R4872	1-216-057-00	RES-CHIP	2.2K	5%	1/10W				` ′		
R4874	1-216-295-91	SHORT	0	5.01	1 /1 0337	CN16022E	1-580-843-11 1-695-915-11	PIN, CONNECTOR TAB (CONTACT)	K (POWEK)		
R4875	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	C111004	1 0,5 ,15 11	nib (colvine)			
R4877	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R4878	1-208-838-91	METAL CHIP	220K	0.5%	1/10W			<fuse></fuse>			
R4879	1-216-105-91	RES-CHIP	220K	5%	1/10W						
R4881	1-216-295-91	SHORT	0			F1601	1-532-299-00	FUSE, TIME-LAG	5A/250V		
R4882	1-208-836-11	METAL CHIP	180K	0.5%	1/10W						
								∠EEDDITE DE A D			
R4883	1-208-842-11	METAL CHIP	330K	0.5%	1/10W			<ferrite bead<="" td=""><td>&gt;</td><td></td><td></td></ferrite>	>		
R4884	1-216-691-11	METAL CHIP	47K	0.5%	1/10W	FB1601	1-410-397-21	FERRITE	1.1UH		
R4887 R4889	1-208-814-91 1-216-025-11	METAL CHIP RES-CHIP	22K 100	0.5% 5%	1/10W 1/10W	FB1602	1-410-397-21	FERRITE	1.1UH		
R4891	1-216-025-11	RES-CHIP	100	5%	1/10W 1/10W	FB1603	1-410-397-21	FERRITE	1.1UH		
K+071	1-210-025-11	KES-CIII	100	3 /0	1/10 **	FB1604	1-410-397-21	FERRITE	1.1UH		
R4892	1-216-295-91	SHORT	0								
R4894	1-216-073-91	RES-CHIP	10K	5%	1/10W						
R4895	1-216-073-91	RES-CHIP	10K	5%	1/10W			<resistor></resistor>			
R4897	1-208-788-11	METAL CHIP	1.8K	0.5%	1/10W						
R4898	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W	R1601 △	. 1-202-885-91	SOLID	1M	10%	1/2W
D 4900	1 216 025 11	RES-CHIP	100	501	1/1007						
R4899 R4908	1-216-025-11 1-216-049-11	RES-CHIP	100 1K	5% 5%	1/10W 1/10W			<transformer< td=""><td>_</td><td></td><td></td></transformer<>	_		
R4909	1-216-065-91	RES-CHIP	4.7K	5%	1/10W			VIKANSI OKWEN			
R4910	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	T1601	1-433-900-11	TRANSFORMER,	LINE FILT	ER	
R4911	1-208-818-11	METAL CHIP	33K	0.5%	1/10W	T1602	1-433-900-11	TRANSFORMER,			
R4912	1-208-806-11	METAL CHIP	10K	0.5%	1/10W			*** ======			
R4913	1-208-806-11	METAL CHIP	10K	0.5%	1/10W			<varistor></varistor>			
R4914	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	VDD161	1 002 020 11	WADIOTOD (EDGY	/1/D(21)		
R4915	1-216-025-11	RES-CHIP	100	5%	1/10W	VDK101	1-803-830-11	VARISTOR (ERZV	14D021)		
R4916	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R4917	1-216-057-00	RES-CHIP	2.2K	5%	1/10W						
R4918	1-216-089-91	RES-CHIP	47K	5%	1/10W	*******	******	******	******	*****	*****
R4921	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W						
R4922	1-208-806-11	METAL CHIP	10K	0.5%	1/10W	*	A-1241-510-A	F2 BOARD MOUN			
R4924	1-208-820-11	METAL CHIP	39K	0.5%	1/10W			******	****		
D4025	1 216 057 00	DEC CITID	2 21/2	501	1/1007						
R4925 R4926	1-216-057-00 1-216-057-00	RES-CHIP RES-CHIP	2.2K 2.2K	5% 5%	1/10W 1/10W						
R4927	1-208-836-11	METAL CHIP	180K	0.5%	1/10W			<connector></connector>			
R4989	1-216-051-00	RES-CHIP	1.2K	5%	1/10W			CONTRACTOR			
R4991	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	CN1651	1-580-843-11	PIN, CONNECTOR	R (POWER)	)	
							1-691-291-11	PIN, CONNECTOR	. ,		
		<crystal></crystal>						ZWITCH.			
X4300	1-767-127-11	VIBRATOR, CER	AMIC					<switch></switch>			
A7300	1-101-121-11	TIDICATOR, CER	MINIC			S1651 A	1-571-433-21	SWITCH, PUSH (A	AC POWER	)	
						0.001		2 / 11 011, 1 0011 (1		,	
*****	******	*******	*****	******	*****	المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية المالية		******	alle alle alle alle alle alle alle alle	44444	مان مان مان مان مان مان مان مان مان مان
						マママホホホボボギ	····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>ツッツッグボボボボ</b>	ママママママボギ	ጥጥጥጥጥጥ

# KV-ES38M31/ES38M61/ES38M90/ES38M91



	PART NO.	DESCRIPTION		REMAR	<u>K</u>	REF NO.	PART NO.	DESCRIPTION		REMAI	<u>RK</u>
	* A-1377-035-A	H1 BOARD MOU!						<diode></diode>			
	* 4-055-304-01	HOLDER, LED	****			D1930 D1930 D1935	8-719-929-15 8-719-923-60 8-719-929-15	HZS9.1NB2 MTZJ-T-77-9.1A HZS9.1NB2			
		<capacitor></capacitor>						<jack></jack>			
C1910	1-126-947-11	ELECT	47UF	20.00%	16V	J1931	1-770-786-11	JACK			
C1911 C1912	1-126-947-11 1-102-824-00	ELECT CERAMIC	47UF 470PF	20.00% 5.00%	16V 50V	J1932 J1933	1-537-744-11 1-770-329-11	TERMINAL, S JACK, PIN 3P			
		<connector></connector>						<coil></coil>			
CN1901	* 1-564-520-11	PLUG, CONNECT	OR 5P			L1931 L1932	1-408-603-31 1-408-603-31	INDUCTOR INDUCTOR	10UH 10UH		
		<diode></diode>						<resistor></resistor>			
D1906	8-719-045-19	SPB-26MVWF				R1933	1-247-895-91	CARBON	470K	5%	1/4W
		<ic></ic>				R1934 R1935	1-247-807-31 1-247-807-31	CARBON CARBON	100 100	5% 5%	1/4W 1/4W
						R1936	1-247-895-91	CARBON	470K	5%	1/4W
IC1901	8-742-134-01	SBX1981-51RP				R1952	1-249-421-11	CARBON	2.2K	5%	1/4W
		<transistor></transistor>						<switch></switch>			
Q1901 Q1902	8-729-030-02 8-729-030-02	DTC144ESA DTC144ESA				S1931	1-692-431-21	SWITCH, TACTIL	E		
		<resistor></resistor>				******	******	******	*****	*****	*****
R1911 R1913 R1914 R1915	1-249-411-11 1-249-429-11 1-249-411-11 1-249-429-11	CARBON CARBON CARBON CARBON	330 10K 330 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	*	A-1377-037-A	H3 BOARD MOU!			
R1916	1-249-401-11	CARBON	47	5%	1/4W			<connector></connector>			
R1917	1-247-807-31	CARBON	100	5%	1/4W	<b>271000</b> d			op 4p		
R1920 R1921	1-247-807-31 1-247-807-31	CARBON CARBON	100 100	5% 5%	1/4W 1/4W	CN1980 *	1-564-518-11	PLUG, CONNECT	OR 3P		
								<resistor></resistor>			
******	******	*******	*****	*****	*****	R1970 R1971	1-249-416-11 1-249-417-11	CARBON CARBON	820 1K	5% 5%	1/4W 1/4W
	* A-1377-036-A	H2 BOARD MOUN				R1972	1-249-418-11	CARBON	1.2K	5%	1/4W
		******	****			R1973 R1974	1-249-420-11 1-247-843-11	CARBON CARBON	1.8K 3.3K	5% 5%	1/4W 1/4W
						R1975	1-249-427-11	CARBON	6.8K	5%	1/4W
		<capacitor></capacitor>				R1976	1-249-432-11	CARBON	18K	5%	1/4W
C1930 C1932	1-136-153-00 1-136-153-00	FILM FILM	0.01UF 0.01UF	5.00% 5.00%	50V 50V			<switch></switch>			
C1935 C1938	1-102-824-00 1-102-824-00	CERAMIC CERAMIC	470PF 470PF	5.00% 5.00%	50V 50V	S1972	1-572-198-11	SWITCH, KEYBO	ARD		
						S1973 S1974	1-572-198-11 1-572-198-11	SWITCH, KEYBO SWITCH, KEYBO			
		<connector></connector>				S1975	1-572-198-11	SWITCH, KEYBO	ARD		
CN1932	* 1-564-509-11	PLUG, CONNECT				S1976	1-572-198-11	SWITCH, KEYBO	ARD		
CN1934	* 1-564-515-11	PLUG, CONNECT	OR 12P			S1977	1-572-198-11	SWITCH KEYBO			
						S1978 S1979	1-572-198-11 1-572-198-11	SWITCH, KEYBO SWITCH, KEYBO			
						1					



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REF NO.	PART NO.	DESCRIPTION		REMAR	<u>RK</u>	REF NO.	PART NO.	DESCRIPTION		REMAR	₹K_
******	******	******	*******	******	*****	C8356	1-164-346-11	CERAMIC CHIP	1UF		16V
	* A 1205 041 A	J BOARD COMPL	CTC			C8357	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
	A-1393-041-A	*********				C8358	1-164-346-11	CERAMIC CHIP	1UF		16V
						C8359	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
	3-350-679-01	WASHER, FIBER				C8360	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
		•				C8361	1-126-961-11	ELECT	2.2UF	20.00%	50V
						C8362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
		<capacitor></capacitor>				C8363	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
						C8364	1-126-947-11	ELECT	47UF	20.00%	16V
C8300	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V	C8365	1-126-947-11	ELECT	47UF	20.00%	16V
C8301	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C8366	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8302	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C8367	1-126-947-11	ELECT	47UF	20.00%	16V
C8303	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C02(0	1 126 047 11	ELECT	471 IE	20.000	1617
C8304	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C8368	1-126-947-11	ELECT	47UF	20.00%	16V
C8305	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C8369 C8370	1-126-947-11 1-164-004-11	ELECT CERAMIC CHIP	47UF 0.1UF	20.00% 10.00%	16V 25V
C8306	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C8370	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25 V
C8307	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C8371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8308	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V				*****		
C8309	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C8373	1-163-227-11	CERAMIC CHIP	10PF	0.50PF 5	50V
						C8374	1-164-346-11	CERAMIC CHIP	1UF		16V
C8310	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C8375	1-126-964-11	ELECT	10UF	20.00%	50V
C8311	1-164-346-11	CERAMIC CHIP	1UF		16V	C8376	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8312	1-164-346-11	CERAMIC CHIP	1UF		16V	C8381	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8313	1-164-346-11	CERAMIC CHIP	1UF		16V	00202	1 164 004 11	CED LANG CHID	0.1175	10.000	2517
C8314	1-164-346-11	CERAMIC CHIP	1UF		16V	C8382 C8386	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V 50V
C8315	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V	C8380 C8390	1-163-021-91 1-126-963-11	CERAMIC CHIP ELECT	0.01UF 4.7UF	10.00% 20.00%	50 V
C8316	1-163-133-00	CERAMIC CHIP	470FF 470PF	5.00%	50V	C8390 C8391	1-120-903-11	CERAMIC CHIP	0.1UF	10.00%	
C8317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C8392	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25 V
C8318	1-164-346-11	CERAMIC CHIP	1UF	10.00 /	16V	00372	1 101 001 11	CERC INFIC CITI	0.101	10.00 /	25 (
C8319	1-164-346-11	CERAMIC CHIP	1UF		16V	C8393	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
						C8396	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8320	1-117-720-11	CERAMIC CHIP	4.7UF		10V	C8399	1-126-961-11	ELECT	2.2UF	20.00%	50V
C8321	1-117-720-11	CERAMIC CHIP	4.7UF		10V	C8401	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8322	1-164-346-11	CERAMIC CHIP	1UF		16V	C8402	1-164-346-11	CERAMIC CHIP	1UF		16V
C8323	1-164-346-11	CERAMIC CHIP	1UF		16V	90.402		ann is ea airm	0.000115	10.000	<b>5011</b>
C8324	1-117-720-11	CERAMIC CHIP	4.7UF		10V	C8403	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C8325	1-126-935-11	ELECT	470UF	20.00%	16V	C8406 C8407	1-126-947-11 1-126-947-11	ELECT ELECT	47UF 47UF	20.00% 20.00%	16V 16V
C8325	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V 16V	C8407	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8327	1-164-346-11	CERAMIC CHIP	1UF	10.00 /	16V	C8410	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8328	1-164-346-11	CERAMIC CHIP	1UF		16V						
C8329	1-163-249-11	CERAMIC CHIP	82PF	5.00%	50V	C8411	1-117-720-11	CERAMIC CHIP	4.7UF		10V
						C8412	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	
C8330	1-164-346-11	CERAMIC CHIP	1UF		16V	C8413	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8331	1-164-346-11	CERAMIC CHIP	1UF		16V	C8414	1-126-947-11	ELECT	47UF	20.00%	
C8332	1-163-249-11	CERAMIC CHIP	82PF	5.00%	50V	C8415	1-164-346-11	CERAMIC CHIP	1UF		16V
C8333 C8334	1-115-340-11	CERAMIC CHIP	0.22UF 47UF	10.00% 20.00%	25V	C0416	1 164 004 11	CED AMIC CHID	O THE	10.000/	2517
C6554	1-126-947-11	ELECT	4/UF	20.00%	10 V	C8416 C8417	1-164-004-11 1-163-227-11	CERAMIC CHIP CERAMIC CHIP	0.1UF 10PF	10.00% 0.50PF 5	
C8335	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C8417	1-103-227-11	ELECT	10UF	20.00%	
C8336	1-126-947-11	ELECT	47UF	20.00%		C8419	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	
C8337	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C8424	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	
C8338	1-164-346-11	CERAMIC CHIP	1UF		16V						
C8339	1-164-346-11	CERAMIC CHIP	1UF		16V	C8425	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
						C8430	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8340	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V	C8437	1-126-963-11	ELECT	4.7UF	20.00%	
C8341	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%		C8438	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8342	1-126-964-11	ELECT	10UF	20.00%		C8439	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25 V
C8343 C8344	1-126-947-11 1-163-021-91	ELECT CERAMIC CHIP	47UF 0.01UF	20.00% 10.00%		C8440	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C05 <del>11</del>	1-103-021-71	CLIAMIC CHIF	0.0101	10.00 /0	JU V	C8441	1-164-346-11	CERAMIC CHIP	1UF	10.00 /0	25 V 16V
C8346	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	C8442	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8347	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%		C8443	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8348	1-126-968-11	ELECT	100UF	20.00%	16V	C8444	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8349	1-117-720-11	CERAMIC CHIP	4.7UF		10V						
C8352	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V	C8445	1-164-346-11	CERAMIC CHIP	1UF		16V
g05-55		omp 1			0.57	C8446	1-126-947-11	ELECT	47UF	20.00%	16V
C8353	1-115-340-11	CERAMIC CHIP	0.22UF	10.00%		C8447	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%							
C8355	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	JUV						



REF NO.	PART NO.	DESCRIPTION		REMARI	<u>K</u>	REF NO.	PART NO.	DESCRIPTION	RI	EMARK
C8448	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V			<filter></filter>		
C8450	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%				4 121210		
						FL8301	1-236-071-11	ENCAPSULATED O		
C8451	1-164-505-11	CERAMIC CHIP	2.2UF	10.000	16V	FL8303	1-236-071-11	ENCAPSULATED C		
C8452	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	FL8304	1-236-071-11	ENCAPSULATED C		
C8453 C8454	1-164-004-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP	0.1UF 0.1UF	10.00% 10.00%	25V 25V	FL8305 FL8307	1-236-071-11 1-236-071-11	ENCAPSULATED C		
C8455	1-104-004-11	ELECT	47UF		25 V 16 V	rL6307	1-230-0/1-11	ENCAFSULATED	OMFONENT	
00.00	1 120 ) 11	22201	., 01	20.0070	10,	FL8308	1-236-071-11	ENCAPSULATED C	COMPONENT	
C8456	1-126-947-11	ELECT	47UF	20.00%	16V	FL8309	1-236-071-11	ENCAPSULATED C	COMPONENT	
C8457	1-126-947-11	ELECT	47UF	20.00%	16V	FL8311	1-236-071-11	ENCAPSULATED C		
C8459	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	FL8312	1-236-071-11	ENCAPSULATED C		
C8464 C8465	1-126-947-11 1-164-004-11	ELECT CERAMIC CHIP	47UF 0.1UF	20.00% 10.00%	16V 25V	FL8313	1-236-071-11	ENCAPSULATED C	COMPONENT	
C0403	1-104-004-11	CERAWIC CIII	0.101	10.00%	23 <b>v</b>	FL8314	1-233-877-11	FILTER, LOW PASS	3	
C8466	1-247-807-31	CARBON	100	5%	1/4W	FL8315	1-233-504-21	FILTER, LOW PASS		
C8468	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	FL8316	1-233-504-21	FILTER, LOW PASS	3	
C8469	1-247-807-31	CARBON	100	5%	1/4W					
C8471	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V			10		
C8474	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V			<ic></ic>		
		<connector></connector>				IC8302	8-752-080-04	CXA2069Q		
						IC8304	8-759-576-72	LF50CDT-TR		
	1-564-524-11	PLUG, CONNECTO	OR 9P			IC8305	8-759-576-74	LF90CDT-TR		
CN8302	1-695-915-11	TAB (CONTACT)			_	IC8306	8-752-094-47	CXA2123AQ-T6		
CN8304	1-793-498-11	CONNECTOR, BO	ARD TO B	OARD 50	P	IC8308	8-752-094-47	CXA2123AQ-T6		
						IC8309	8-759-337-26	MM1115XFBE		
		<diode></diode>				IC8310	8-759-572-04	TDA9178T/N1.118		
		121022				IC8311	8-759-485-79	TC7SET08FU(TE85	L	
D8101	8-719-404-50	MA111-TX				IC8312	8-759-485-79	TC7SET08FU(TE85		
D8102	1-216-295-91	SHORT	0			IC8314	8-742-175-00	HYB IC SBX3005-1	1	
D8301	8-719-158-35	RD9.1S-B								
D8302	8-719-158-35	RD9.1S-B						<jack></jack>		
D8303	8-719-158-35	RD9.1S-B						<jack></jack>		
D8304	8-719-158-35	RD9.1S-B				J8106	1-793-787-11	JACK BLOCK, PIN	1P	
D8305	8-719-158-35	RD9.1S-B				J8301	1-774-748-11	TERMINAL BLOCK		
D8306	8-719-158-35	RD9.1S-B				J8302	1-774-746-11	JACK BLOCK, PIN		
D8307	8-719-158-35	RD9.1S-B				J8303	1-774-746-11	JACK BLOCK, PIN		
D8308	8-719-158-35	RD9.1S-B				J8304	1-774-746-11	JACK BLOCK, PIN		
D8309	8-719-158-35	RD9.1S-B				J8305	1-695-444-11	PIN JACK BLOCK 3	ξD.	
D8310	8-719-158-35					J8307		JACK BLOCK, PIN		
D8311		RD9.1S-B								
D8312	8-719-158-35	RD9.1S-B								
D8313	8-719-158-35	RD9.1S-B						<chip conducto<="" td=""><td>)R&gt;</td><td></td></chip>	)R>	
D0214	9 710 159 25	DD0 1C D								
D8314 D8315	8-719-158-35 8-719-067-40	RD9.1S-B STZ6.8N-T146				JR8301	1-216-295-91	SHORT	0	
D8316	8-719-067-40	STZ6.8N-T146				JR8302	1-216-295-91		0	
D8317	8-719-067-40	STZ6.8N-T146				JR8303	1-216-295-91	SHORT	0	
D8318	8-719-158-35	RD9.1S-B				JR8304	1-216-295-91	SHORT	0	
D0210	0.710.150.25	DD0 10 D								
D8319 D8320	8-719-158-35 8-719-158-35	RD9.1S-B RD9.1S-B						<transistor></transistor>		
D8320 D8321	8-719-158-35	RD9.1S-B						\IKANSISTUK>		
D8322	8-719-158-35	RD9.1S-B				Q8301	8-729-026-49	2SA1037AK-T146-F	{	
D8323	8-719-158-35	RD9.1S-B				Q8302	8-729-230-49	2SC2712-YG		
						Q8303	8-729-230-49	2SC2712-YG		
D8324	8-719-158-35	RD9.1S-B				Q8304	8-729-230-49	2SC2712-YG	,	
D8325 D8331	8-719-158-35	RD9.1S-B				Q8305	8-729-026-49	2SA1037AK-T146-F	(	
اددەم	8-719-041-97	MA113-(TX)				Q8306	8-729-230-49	2SC2712-YG		
						Q8300 Q8307	8-729-230-49	2SC2712-YG		
		<ferrite bead=""></ferrite>	>			Q8308	8-729-230-49	2SC2712-YG		
						Q8309	8-729-230-49	2SC2712-YG		
FB8101	1-414-598-11	FERRITE	0UH			Q8310	8-729-230-49	2SC2712-YG		
						00212	0 700 000 40	200712 VC		
						Q8312 Q8313	8-729-230-49 8-729-230-49	2SC2712-YG 2SC2712-YG		
						Q8313 Q8319	8-729-230-49	2SA1037AK-T146-F	}	
						Z021)	5 127 020 T/		-	



REF NO.	PART NO.	DESCRIPTION		REMA	RK	REF NO.	PART NO.	DESCRIPTION		REMA	λRK
Q8320	8-729-026-49	2SA1037AK-T14				R8320	1-216-105-91	RES-CHIP	220K	5%	1/10W
Q8321	8-729-026-49	2SA1037AK-T14	5-R			R8321	1-216-105-91	RES-CHIP	220K	5%	1/10W
						R8322	1-216-022-00	RES-CHIP	75	5%	1/10W
Q8322	8-729-026-49	2SA1037AK-T14	5-R								
Q8323	8-729-026-49	2SA1037AK-T14	5-R			R8323	1-216-295-91	SHORT	0		
Q8324	8-729-026-49	2SA1037AK-T14	5-R			R8324	1-216-295-91	SHORT	0		
Q8326	8-729-230-49	2SC2712-YG				R8325	1-216-295-91	SHORT	0		
Q8327	1-801-806-11	TR DTC144EKA				R8326	1-216-113-00	RES-CHIP	470K	5%	1/10W
						R8327	1-216-295-91	SHORT	0		
Q8328	1-801-806-11	TR DTC144EKA									
Q8329	8-729-230-49	2SC2712-YG				R8328	1-216-113-00	RES-CHIP	470K	5%	1/10W
Q8330	8-729-230-49	2SC2712-YG				R8329	1-216-113-00	RES-CHIP	470K	5%	1/10W
Q8331	8-729-230-49	2SC2712-YG				R8330	1-216-022-00	RES-CHIP	75	5%	1/10W
Q8332	8-729-230-49	2SC2712-YG				R8331	1-216-295-91	SHORT	0		
						R8332	1-216-295-91	SHORT	0		
Q8333	8-729-230-49	2SC2712-YG									
Q8334	8-729-230-49	2SC2712-YG				R8333	1-216-295-91	SHORT	0		
Q8335	8-729-230-49	2SC2712-YG				R8334	1-216-295-91	SHORT	0		
Q8336	8-729-230-49	2SC2712-YG				R8335	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q8342	8-729-230-49	2SC2712-YG				R8336	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						R8337	1-216-022-00	RES-CHIP	75	5%	1/10W
Q8343	8-729-026-49	2SA1037AK-T14	5-R								
Q8345	8-729-230-49	2SC2712-YG				R8338	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q8346	8-729-026-49	2SA1037AK-T14	5-R			R8339	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q8347	8-729-230-49	2SC2712-YG	, 10			R8340	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q8348	8-729-026-49	2SA1037AK-T14	5 D			R8341	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q0340	0-729-020-49	25A105/AK-114	J-IX			R8342	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q8349	8-729-230-49	2SC2712-YG				1100.12	1 210 000 71	TEE CITE	,11	270	1,1011
Q8350	8-729-026-49	2SA1037AK-T14	5_R			R8343	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q8350 Q8351		2SC2712-YG	J-IX			R8344	1-216-022-00	RES-CHIP	75	5%	1/10W
-	8-729-230-49		C D			R8345	1-216-022-00		220	5%	1/10W
Q8352	8-729-026-49	2SA1037AK-T14						RES-CHIP			
Q8353	8-729-026-49	2SA1037AK-T14	5-R			R8346	1-216-031-00	RES-CHIP	180	5%	1/10W
						R8347	1-216-025-11	RES-CHIP	100	5%	1/10W
Q8354	8-729-026-49	2SA1037AK-T14				20240	4.246.055.00	DEG GIVE	2 277	# Of	4 (4 0777
Q8355	8-729-026-49	2SA1037AK-T14	5-R			R8348	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
Q8361	8-729-230-49	2SC2712-YG				R8349	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q8362	8-729-230-49	2SC2712-YG				R8350	1-216-049-11	RES-CHIP	1K	5%	1/10W
Q8363	8-729-230-49	2SC2712-YG				R8351	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
						R8352	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
Q8364	8-729-026-49	2SA1037AK-T14	5-R								
Q8464	8-729-230-49	2SC2712-YG				R8353	1-216-017-91	RES-CHIP	47	5%	1/10W
Q8465	8-729-230-49	2SC2712-YG				R8354	1-216-017-91	RES-CHIP	47	5%	1/10W
Q8466	8-729-230-49	2SC2712-YG				R8355	1-216-295-91	SHORT	0		
Q8512	8-729-026-49	2SA1037AK-T14	5-R			R8356	1-216-295-91	SHORT	0		
						R8357	1-216-017-91	RES-CHIP	47	5%	1/10W
		<resistor></resistor>				R8358	1-216-017-91	RES-CHIP	47	5%	1/10W
						R8361	1-216-017-91	RES-CHIP	47	5%	1/10W
R8101	1-216-033-00	RES-CHIP	220	5%	1/10W	R8362	1-216-017-91	RES-CHIP	47	5%	1/10W
R8208	1-216-295-91	SHORT	0		,	R8363	1-216-642-11	METAL CHIP	430	0.5%	1/10W
R8209	1-216-295-91	SHORT	0			R8364	1-216-041-00	RES-CHIP	470	5%	1/10W
R8301	1-216-041-00	RES-CHIP	470	5%	1/10W						,
R8302	1-216-041-00	RES-CHIP	470	5%	1/10W	R8365	1-216-049-11	RES-CHIP	1K	5%	1/10W
110002	1 210 071 00	-125 01111	.,,	570	2, 10 11	R8366	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8303	1-216-021-00	RES-CHIP	68	5%	1/10W	R8367	1-216-041-00	RES-CHIP	470	5%	1/10W
R8304	1-216-021-00	RES-CHIP	2.2K	5%	1/10W	R8369	1-216-041-00	RES-CHIP	470	5%	1/10W
R8305		RES-CHIP	470K	5%		R8370	1-216-025-11	RES-CHIP	100	5%	1/10W
	1-216-113-00				1/10W	K6570	1-210-023-11	KE5-CIII	100	3 /0	1/10 W
R8306	1-216-022-00	RES-CHIP	75 75	5%	1/10W	D0272	1 216 205 01	CHODT	0		
R8307	1-216-022-00	RES-CHIP	75	5%	1/10W	R8372 R8373	1-216-295-91 1-216-295-91	SHORT SHORT	0		
D0200	1 217 105 01	DEC CIUD	22017	E 01	1/10337					E 01	1/10337
R8308	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8374	1-216-039-00	RES-CHIP	390	5%	1/10W
R8309	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8375	1-216-041-00	RES-CHIP	470	5%	1/10W
R8310	1-216-022-00	RES-CHIP	75	5%	1/10W	R8376	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8311	1-216-105-91	RES-CHIP	220K	5%	1/10W	D		DD0 0	460		41.00-
R8312	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8377	1-216-025-11	RES-CHIP	100	5%	1/10W
						R8378	1-216-033-00	RES-CHIP	220	5%	1/10W
R8313	1-216-022-00	RES-CHIP	75	5%	1/10W	R8379	1-216-033-00	RES-CHIP	220	5%	1/10W
R8314	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8380	1-216-025-11	RES-CHIP	100	5%	1/10W
R8315	1-216-105-91	RES-CHIP	220K	5%	1/10W	R8381	1-216-025-11	RES-CHIP	100	5%	1/10W
R8316	1-216-113-00	RES-CHIP	470K	5%	1/10W						
R8317	1-216-022-00	RES-CHIP	75	5%	1/10W	R8382	1-216-033-00	RES-CHIP	220	5%	1/10W
- '		-	-			R8383	1-216-033-00	RES-CHIP	220	5%	1/10W
R8318	1-216-022-00	RES-CHIP	75	5%	1/10W	R8384	1-216-025-11	RES-CHIP	100	5%	1/10W
R8319	1-216-022-00	RES-CHIP	75 75	5%	1/10W	, ,					,
1.001)	1 210 022 00	-125 01111	, 5	270	2, 10 11						



REF NO	. PART NO.	DESCRIPTION		REMA	RK	REF NO.	PART NO.	DESCRIPTION		REM/	ARK
KEI 110	<u> 171K1 110.</u>	<u>DESCRIPTION</u>		KLIVIZ	- ICIK	KEI 110.	1711(1710)	<u>DESCRIPTION</u>			itti
R8385	1-216-025-11	RES-CHIP	100	5%	1/10W	R8456	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8386	1-216-025-11	RES-CHIP	100	5%	1/10W	R8457	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8388	1-216-031-00	RES-CHIP	180	5%	1/10W	R8458	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8389	1-216-033-00	RES-CHIP	220	5%	1/10W	R8459	1-216-025-11	RES-CHIP	100	5%	1/10W
R8390	1-216-642-11	METAL CHIP	430	0.5%	1/10W	R8460	1-216-025-11	RES-CHIP	100	5%	1/10W
R8391	1-216-041-00	RES-CHIP	470	5%	1/10W	R8461	1-216-025-11	RES-CHIP	100	5%	1/10W
R8393	1-216-037-00	RES-CHIP	330	5%	1/10W	R8462	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8394	1-216-041-00	RES-CHIP	470	5%	1/10W	R8463	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8395	1-216-033-00	RES-CHIP	220	5%	1/10W	R8464	1-216-025-11	RES-CHIP	100	5%	1/10W
R8396	1-216-033-00	RES-CHIP	220	5%	1/10W	R8465	1-216-025-11	RES-CHIP	100	5%	1/10W
R8398	1-216-025-11	RES-CHIP	100	5%	1/10W	R8466	1-216-025-11	RES-CHIP	100	5%	1/10W
R8399	1-216-025-11	RES-CHIP	100	5%	1/10W	R8467	1-216-041-00	RES-CHIP	470	5%	1/10W
1100//	1 210 020 11	1125 0111	100	5 70	1,10	110.07	1 210 0.1 00	TEES CTIII	.,,	2 70	1,1011
R8400	1-216-025-11	RES-CHIP	100	5%	1/10W	R8468	1-216-041-00	RES-CHIP	470	5%	1/10W
R8401	1-216-081-00	RES-CHIP	22K	5%	1/10W	R8469	1-216-041-00	RES-CHIP	470	5%	1/10W
R8404	1-216-033-00	RES-CHIP	220	5%	1/10W	R8470	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8405	1-216-033-00	RES-CHIP	220	5%	1/10W	R8471	1-216-025-11	RES-CHIP	100	5%	1/10W
R8406	1-216-033-00	RES-CHIP	220	5%	1/10W	R8472	1-216-023-11	RES-CHIP	47K	5%	1/10W
10400	1-210-055-00	KE3-CIII	220	3 /0	1/10 **	1X04/2	1-210-009-91	KE5-CIII	4/IX	3 /0	1/10 **
R8407	1-216-033-00	RES-CHIP	220	5%	1/10W	R8473	1-216-025-11	RES-CHIP	100	5%	1/10W
R8408	1-216-033-00	RES-CHIP	220	5%	1/10W	R8474	1-216-023-11	RES-CHIP	100K	5%	1/10W
R8409				370	1/10 W	R8475		RES-CHIP		5%	
	1-216-295-91	SHORT	0				1-216-089-91		47K		1/10W
R8410	1-216-295-91	SHORT	0	<b>F</b> 01	4 14 0777	R8478	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8411	1-216-083-00	RES-CHIP	27K	5%	1/10W	R8479	1-216-097-11	RES-CHIP	100K	5%	1/10W
D0410	1 216 072 01	DEC CHID	1077	5.01	1/10337	D0400	1 217 072 01	DEC CHID	1017	F.01	1/10337
R8412	1-216-073-91	RES-CHIP	10K	5%	1/10W	R8480	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8413	1-216-041-00	RES-CHIP	470	5%	1/10W	R8481	1-216-095-00	RES-CHIP	82K	5%	1/10W
R8414	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W	R8482	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8415	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8484	1-216-045-00	RES-CHIP	680	5%	1/10W
R8417	1-216-025-11	RES-CHIP	100	5%	1/10W	R8485	1-216-037-00	RES-CHIP	330	5%	1/10W
D0440	1 21 6 22 11	DEG GIVE	100	# cr	4 /4 0777	D0.406		DEG CITE	4.77	# Of	4 (4 0 7 7 7
R8418	1-216-025-11	RES-CHIP	100	5%	1/10W	R8486	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8419	1-216-017-91	RES-CHIP	47	5%	1/10W	R8487	1-216-045-00	RES-CHIP	680	5%	1/10W
R8420	1-216-017-91	RES-CHIP	47	5%	1/10W	R8488	1-216-041-00	RES-CHIP	470	5%	1/10W
R8421	1-216-295-91	SHORT	0			R8489	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8422	1-216-295-91	SHORT	0			R8490	1-216-049-11	RES-CHIP	1K	5%	1/10W
						R8491	1-216-025-11	RES-CHIP	100	5%	1/10W
R8424	1-216-083-00	RES-CHIP	27K	5%	1/10W						
R8425	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8493	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8426	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W	R8495	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8428	1-216-295-91	SHORT	0			R8496	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8429	1-216-295-91	SHORT	0			R8497	1-216-025-11	RES-CHIP	100	5%	1/10W
						R8499	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8430	1-216-295-91	SHORT	0								
R8431	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8501	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8432	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8502	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8433	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8503	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8434	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8504	1-216-295-91	SHORT	0		
						R8507	1-216-025-11	RES-CHIP	100	5%	1/10W
R8435	1-216-295-91	SHORT	0								
R8436	1-216-017-91	RES-CHIP	47	5%	1/10W	R8508	1-216-025-11	RES-CHIP	100	5%	1/10W
R8440	1-216-295-91	SHORT	0			R8510	1-216-041-00	RES-CHIP	470	5%	1/10W
R8441	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8511	1-216-041-00	RES-CHIP	470	5%	1/10W
R8442	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8512	1-216-017-91	RES-CHIP	47	5%	1/10W
						R8516	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8443	1-216-025-11	RES-CHIP	100	5%	1/10W	R8522	1-216-041-00	RES-CHIP	470	5%	1/10W
R8444	1-216-025-11	RES-CHIP	100	5%	1/10W						·
R8445	1-216-017-91	RES-CHIP	47	5%	1/10W	R8524	1-216-041-00	RES-CHIP	470	5%	1/10W
R8446	1-216-049-11	RES-CHIP	1K	5%	1/10W	R8525	1-216-033-00	RES-CHIP	220	5%	1/10W
R8447	1-216-025-11	RES-CHIP	100	5%	1/10W	R8528	1-216-025-11	RES-CHIP	100	5%	1/10W
100117	1 210 020 11	-125 01111	100	2 70	2, 2011	R8530	1-216-041-00	RES-CHIP	470	5%	1/10W
R8448	1-216-025-11	RES-CHIP	100	5%	1/10W	R8532	1-216-041-00	RES-CHIP	470	5%	1/10W
R8449	1-216-025-11	RES-CHIP	100	5%	1/10W						, ' ' '
R8450	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8533	1-216-041-00	RES-CHIP	470	5%	1/10W
R8451	1-216-097-11	RES-CHIP	100K	5%	1/10W	R8536	1-216-025-11	RES-CHIP	100	5%	1/10W
R8452	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8538	1-216-041-00	RES-CHIP	470	5%	1/10W
	10 007 71		.,	5 70	-, -0 .1	R8540	1-216-041-00	RES-CHIP	470	5%	1/10W
R8453	1-216-097-11	RES-CHIP	100K	5%	1/10W	R8541	1-216-039-00	RES-CHIP	390	5%	1/10W
R8454	1-216-089-91	RES-CHIP	47K	5%	1/10W				->0	270	-, -0 11
R8455	1-216-097-11	RES-CHIP	100K	5%	1/10W	R8544	1-216-041-00	RES-CHIP	470	5%	1/10W
						R8547	1-216-295-91	SHORT	0		
						•					



									U	5	<b>」</b> L▼
REF NO.	PART NO.	DESCRIPTION		REMAR	<u>K</u>	REF NO.	PART NO.	DESCRIPTION		REMAR	RK
R8548	1-216-033-00	RES-CHIP	220	5%	1/10W	,	* A-1342-626-A	V BOARD MOUN	TED		
R8551	1-216-033-00	RES-CHIP	220 1K	5% 5%	1/10W 1/10W	]	A-1342-020-A	(KV-ES38M31/ES3		8M91)	
R8556	1-216-025-11	RES-CHIP	100	5%	1/10W			*********		0141/1)	
R8557	1-216-049-11	RES-CHIP	1K	5%	1/10W						
R8558	1-208-776-11	METAL CHIP	560	0.5%	1/10W			CADACITOD.			
R8560 R8561	1-216-025-11 1-216-049-11	RES-CHIP RES-CHIP	100 1K	5% 5%	1/10W 1/10W			<capacitor></capacitor>			
R8562	1-208-776-11	METAL CHIP	560	0.5%	1/10W	C1803	1-104-665-11	ELECT	100UF	20.00%	16V
					-,	C1804	1-163-989-11	CERAMIC CHIP	0.033UF	10.00%	25V
R8564	1-216-025-11	RES-CHIP	100	5%	1/10W	C1805	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
R8565	1-216-049-11	RES-CHIP	1K	5%	1/10W	C1806	1-163-105-00	CERAMIC CHIP	33PF	5.00%	50V
R8566	1-208-776-11	METAL CHIP	560	0.5%	1/10W	C1807	1-163-105-00	CERAMIC CHIP	33PF	5.00%	50V
R8567 R8569	1-216-017-91 1-208-800-11	RES-CHIP METAL CHIP	47 5.6K	5% 0.5%	1/10W 1/10W	C1808	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
10307	1 200 000 11	WIE IT TE CITI	3.01	0.570	1/10**	C1809	1-104-665-11	ELECT	100UF		16V
R8570	1-216-017-91	RES-CHIP	47	5%	1/10W	C1810	1-163-009-91	CERAMIC CHIP	0.001UF		50V
R8572	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	C1811	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
R8573	1-216-017-91	RES-CHIP	47	5%	1/10W	C1812	1-104-665-11	ELECT	100UF	20.00%	16V
R8575	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W	G1012	1 1/2 021 01	CED AMIC CHID	0.01115	10.000/	5017
R8576	1-216-013-00	RES-CHIP	33	5%	1/10W	C1813 C1815	1-163-021-91 1-163-243-11	CERAMIC CHIP	0.01UF 47PF	10.00% 5.00%	50V 50V
R8577	1-216-295-91	SHORT	0			C1813	1-164-005-11	CERAMIC CHIP	0.47UF	3.00%	25V
R8578	1-216-635-11	METAL CHIP	220	0.5%	1/10W	C1821	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V
R8579	1-216-295-91	SHORT	0		·	C1822	1-126-934-11	ELECT	220UF	20.00%	10V
R8582	1-208-291-11	RES-CHIP	4.7M	5%	1/10W						
R8583	1-208-291-11	RES-CHIP	4.7M	5%	1/10W	C1824	1-163-021-91	CERAMIC CHIP	0.01UF		50V
D0504	1 200 201 11	DEC CHID	4.73.4	E CI	1 /1 0337	C1826	1-163-021-91	CERAMIC CHIP	0.01UF		50V
R8584 R8585	1-208-291-11 1-208-291-11	RES-CHIP RES-CHIP	4.7M 4.7M	5% 5%	1/10W 1/10W	C1827 C1828	1-126-934-11 1-163-021-91	ELECT CERAMIC CHIP	220UF 0.01UF	20.00% 10.00%	10V 50V
R8586	1-208-291-11	RES-CHIP	4.7M	5%	1/10W	C1828	1-163-021-91	CERAMIC CHIP	0.01UF		50V
R8587	1-216-295-91	SHORT	0	570	1,1011	0102)	1 100 021 71	0210111110 01111	0.0101	10.00%	
R8588	1-216-041-00	RES-CHIP	470	5%	1/10W						
								<connector></connector>			
R8589	1-216-041-00	RES-CHIP	470	5%	1/10W	GN11001	1 702 406 11	CONNECTOR DO		0.4.00.00	ъ
R8590 R8592	1-216-041-00 1-216-295-91	RES-CHIP SHORT	470 0	5%	1/10W	CN1801	1-793-496-11	CONNECTOR, BC	DARD TO E	SOARD 20	Р
R8594	1-216-295-91	SHORT	0								
R8595	1-216-041-00	RES-CHIP	470	5%	1/10W			<diode></diode>			
R8596	1-216-041-00	RES-CHIP	470	5%	1/10W	D1802	8-719-404-50	MA111-TX			
R8597	1-216-041-00	RES-CHIP	470	5%	1/10W	D1803	8-719-404-50	MA111-TX			
						D1809 D1810	8-719-404-50 8-719-404-50	MA111-TX MA111-TX			
		<crystal></crystal>				Dioio	0-719-404-30	WAIII-IA			
		(CICIO II IL)									
X8301	1-781-612-11	VIBRATOR, CRYS	STAL					<ferrite bead<="" td=""><td>&gt;</td><td></td><td></td></ferrite>	>		
X8302	1-781-612-11	VIBRATOR, CRYS	STAL								
						FB1801	1-410-397-21	FERRITE	1.1UH		
						FB1802 FB1803	1-410-397-21 1-410-397-21	FERRITE FERRITE	1.1UH 1.1UH		
*****	******	*******	******	*****	*****	FB1804	1-410-397-21	FERRITE	1.1UH		
						FB1805	1-410-397-21	FERRITE	1.1UH		
*	* A-1391-163-A	SP BOARD MOU									
		******	****					***			
								<ic></ic>			
						IC1801	8-759-652-13	SDA5254-2B006			
		<capacitor></capacitor>				IC1802	8-759-239-14	TA78L05S			
						IC1803	8-759-042-02	S-80743AL-A7-S			
C3251	1-136-177-00	FILM	1UF	5.00%	50V						
C3252	1-126-411-21	ELECT	27UF	20.00%	50V			COT			
								<coil></coil>			
		<connector></connector>				L1801	1-408-602-31	INDUCTOR	8.2UH		
							002 01				
CN3251	1-564-506-11	PLUG, CONNECT									
CN3253	1-564-507-11	PLUG, CONNECT	OR 4P					<transistor></transistor>			
						01902	0 700 000 50	200712 3/0			
						Q1802 Q1803	8-729-230-50 8-729-230-49	2SC2712-YG 2SC2712-YG			
******	******	*******	******	******	*****	Q1803 Q1804	8-729-026-49				
						Q1805	8-729-026-49	2SA1037AK-T146			
						Q1806	8-729-026-49	2SA1037AK-T146	-R		



L	<b>V</b> . <b>V</b> .											
	REF NO.	PART NO.	DESCRIPTION		REMAR	K	REF NO.	PART NO.	DESCRIPTION		REMA	RK
			DEGICTOR:			_		1 104 000 11	MAT AD	0.1115	10.000/	20017
			<resistor></resistor>				C5415 C5418	1-104-999-11 1-107-638-11	MYLAR ELECT	0.1UF 33UF	10.00% 20.00%	
	R1804	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W	C3416	1-107-036-11	ELECT	33UF	20.00%	100 V
	R1805	1-216-025-11	RES-CHIP	100	5%	1/10W						
	R1806	1-216-025-11	RES-CHIP	100	5%	1/10W			<connector></connector>			
	R1807	1-208-816-11	METAL CHIP	27K	0.5%	1/10W			CONTECTOR			
	R1808	1-216-025-11	RES-CHIP	100	5%	1/10W	CN5401 *	1-770-723-11	CONNECTOR, BO	OARD TO E	30ARD 8I	>
						,	CN5402	1-764-334-11	PLUG, CONNECT			
	R1809	1-208-758-11	METAL CHIP	100	0.5%	1/10W						
	R1811	1-208-758-11	METAL CHIP	100	0.5%	1/10W						
	R1812	1-216-295-91	SHORT	0					<diode></diode>			
	R1813	1-208-758-11	METAL CHIP	100	0.5%	1/10W						
	R1814	1-216-295-91	SHORT	0			D5400	8-719-911-19	1SS119-25			
							D5401	8-719-510-02	D1NS4			
	R1815	1-216-295-91	SHORT	0			D5402	8-719-911-19	1SS119-25			
	R1816	1-216-295-91	SHORT	0	# cr	4 14 0777	D5403	8-719-911-19	1SS119-25			
	R1820	1-216-121-11	RES-CHIP	1M	5%	1/10W	D5404	8-719-911-19	1SS119-25			
	R1821	1-216-041-00	RES-CHIP	470	5%	1/10W	D5405	0.710.110.56	DD22EC D1			
	R1822	1-216-025-11	RES-CHIP	100	5%	1/10W	D5405 D5406	8-719-110-56 8-719-110-56	RD22ES-B1			
	R1823	1-216-089-91	RES-CHIP	47K	5%	1/10W	D3400	8-719-110-30	RD22ES-B1			
	R1824	1-216-049-91	RES-CHIP	4/K 1K	5%	1/10W 1/10W						
	R1825	1-216-041-00	RES-CHIP	470	5%	1/10W			<coil></coil>			
	R1826	1-216-049-11	RES-CHIP	1K	5%	1/10W			COIL			
	R1827	1-216-037-00	RES-CHIP	330	5%	1/10W	L5400	1-412-525-31	INDUCTOR	10UH		
	111027	1 210 037 00	RED CITI	330	5 70	1,1011	23 100	1 112 323 31	INDUCTOR	10011		
	R1829	1-216-053-00	RES-CHIP	1.5K	5%	1/10W						
	R1830	1-216-063-91	RES-CHIP	3.9K	5%	1/10W			<transistor></transistor>			
	R1831	1-216-073-91	RES-CHIP	10K	5%	1/10W						
	R1832	1-215-859-00	METAL OXIDE	22	5%	1W	Q5400	8-729-119-78	2SC2785-HFE			
	R1833	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	Q5401	8-729-119-78	2SC2785-HFE			
							Q5402	8-729-119-78	2SC2785-HFE			
	R1834	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	Q5403	8-729-119-78	2SC2785-HFE			
	R1835	1-216-049-11	RES-CHIP	1K	5%	1/10W	Q5404	8-729-119-76	2SA1175-HFE			
	R1836	1-216-049-11	RES-CHIP	1K	5%	1/10W						
	R1837	1-216-049-11	RES-CHIP	1K	5%	1/10W	Q5405	8-729-119-76	2SA1175-HFE			
	R1838	1-216-025-11	RES-CHIP	100	5%	1/10W	Q5406	8-729-045-05	2SA2005			
							Q5407	8-729-045-04	2SC5511			
	R1839	1-216-025-11	RES-CHIP	100	5%	1/10W						
	R1840	1-216-025-11	RES-CHIP	100	5%	1/10W						
	R1841	1-216-065-91	RES-CHIP	4.7K	5%	1/10W			<resistor></resistor>			
							D.5.404	1 240 425 11	CARRON	4.777	<b>7</b> 01	1 /4557
			CDVCTAL				R5401	1-249-425-11	CARBON	4.7K	5%	1/4W
			<crystal></crystal>				R5402	1-249-415-11 1-247-739-11	CARBON	680 100	5% 5%	1/4W
	V1001	1 701 605 21	VIDDATOD CDV	TAI			R5403 R5404	1-247-739-11				1/2W
	X1801	1-/61-063-21	VIBRATOR, CRYS	IAL			R5404 R5406	1-249-418-11	CARBON CARBON	1.2K 4.7K	5% 5%	1/4W 1/4W
							13,400	1-2-725-11	CARDON	T./IX	370	1/4**
							R5407	1-249-399-11	CARBON	33	5%	1/4W
	******	******	******	*****	*****	*****	R5408	1-247-807-31	CARBON	100	5%	1/4W
							R5409	1-249-409-11	CARBON	220	5%	1/4W
	*	A-1342-625-A	VM BOARD MOU	NTED			R5410	1-249-401-11	CARBON	47	5%	1/4W
			******	*****			R5411	1-249-401-11	CARBON	47	5%	1/4W
		4-382-854-11	SCREW (M3X10),	P, SW (+)			R5412	1-249-429-11	CARBON	10K	5%	1/4W
							R5413	1-249-414-11	CARBON	560	5%	1/4W
							R5414	1-249-432-11	CARBON	18K	5%	1/4W
							R5415	1-247-739-11	CARBON	100	5%	1/2W
			<capacitor></capacitor>				R5416	1-249-385-11	CARBON	2.2	5%	1/4W
	C5401	1-126-935-11	ELECT	470UF	20.00%		R5417	1-249-432-11	CARBON	18K	5%	1/4W
	C5402	1-137-194-81	FILM	0.47UF	5.00%	50V	R5418	1-249-414-11	CARBON	560	5%	1/4W
	C5403	1-126-935-11	ELECT	470UF	20.00%		R5419	1-249-421-11	CARBON	2.2K	5%	1/4W
	C5405	1-126-933-11	ELECT	100UF	20.00%		R5420	1-249-421-11	CARBON	2.2K	5%	1/4W
	C5406	1-126-935-11	ELECT	470UF	20.00%	0.3 V	R5421	1-249-385-11	CARBON	2.2	5%	1/4W
	C5407	1-107-364-11	MYLAR	0.01UF	10.00%	200V	R5422	1-249-405-11	CARBON	100	5%	1/4W
	C5407	1-107-364-11	MYLAR MYLAR	0.01UF 0.01UF	10.00%	200V 200V	R5422 R5423	1-249-405-11	METAL OXIDE	470	5% 5%	1/4 W 3 W
	C5409	1-107-504-11	ELECT	2.2UF	20.00%	250V	R5424	1-249-395-11	CARBON	15	5%	1/4W
	C5410	1-130-471-00	MYLAR	0.001UF	5.00%	50V	R5425	1-249-393-11	CARBON	47	5%	1/4W
	C5411	1-130-471-00	MYLAR	0.001UF	5.00%	50 V	R5427	1-249-395-11	CARBON	15	5%	1/4W
					2.00/0		,				0	-, - , ,
	C5412	1-126-935-11	ELECT	470UF	20.00%	16V						
	C5413	1-107-648-91	ELECT	100UF	20.00%		'					

REF NO.	PART NO.	DESCRIPTION	REMARK	REF NO.	PART NO.	DESCRIPTION	REMARK
******	******	*******	******				
		S AND PACKING MATER					
	****	*********	at at at at				
	1-769-175-21	CABLE, ANTENNA (WI	TH FILTER)				
	1-569-008-21	ADAPTOR, CONVERSION	N 2P				
		(KV-ES38M91 only)					
	3-701-910-00	SCREW, SPECIAL (DIA.	3.8X20)				
*	4-081-299-01	BAG, PROTECTION					
	4-084-490-01	INDIVIDUAL CARTON					
	4-084-491-01	TRAY					
*	4-084-494-01	CUSHION (UPPER) (EXC	CEPT KV-ES38M61)				
*	4-084-495-01	CUSHION (LOWER) (EX	CEPT KV-ES38M61)				
*	4-396-077-01	JOINT					
	4-079-895-51	MANUAL, INSTRUCTIO	N (KV-ES38M31/M91)				
	4-079-895-41	MANUAL, INSTRUCTIO	N (KV-ES38M61)				
	4-079-895-21	MANUAL, INSTRUCTIO	N (KV-ES38M90)				
	4-079-895-31	MANUAL, INSTRUCTIO	N (KV-ES38M91)				
	4-392-003-01	BAND, HOLD	,				
	4-392-004-11	CLIP					
*	4-055-673-01	SHEET, PROTECTION					
******	*****	********	******				
		REMOTE COMMANDE					
		********	k				
	1-418-566-11	REMOTE COMMANDER	P (PM 016)				
	4-074-721-01	BATTERY COVER REM	,				
	1 5/7 /21 01	DIN IERI COVERNEN	SIL COMMINDER				